COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY

An International Journal

EDITOR: G. A. KERKUT (*Southampton*)

List of Contents and Author Index

Volume 82, Part C, 1985

PERGAMON PRESS

OXFORD · NEW YORK · TORONTO · SYDNEY · FRANKFURT

Comparative Biochemistry and Physiolog

Editor

Professor G. A. Kerkut, Department of Physiology and Biochemistry, University of Southampto
Southampton SO9 3TU, England (Executive Editor). Tel.: (0703) 559122

Members of the Honorary Editorial Advisory Board

T. H. Bullock (La Jolla)
C. B. Cowey (Aberdeen)
R. Fänge (Göteborg)
E. Florey (Konstanz)
W. S. Hoar (Vancouver)
H. Kinosita (Saitama)
E. Kreps (Leningrad)
O. Lowenstein (Birmingham)
C. Manwell (Adelaide)
H. S. Mason (Portland)
C. L. Prosser (Urbana)
J. Roche (Paris)
B. T. Scheer (Santa Barbara)
C. A. Villee (Massachusetts)
G. Wald (Harvard)
J. H. Welsh (Maine)

Publishing, Subscription and Advertising Offices: *Pergamon Press Ltd, Headington Hill Hall, Oxford OX*3 0*BW, England* (*Tel.:* Oxford 64881).

North America: *Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY* 10523, *U.S.A.*

Annual Subscription Rates 1986 (including postage and insurance)

For libraries, research establishments and all other multiple-reader institutions: combined subscription, 1-yr $1770.00; 2-yr $3363.00. Part A, Comparative Physiology $760.00; Part B, Comparative Biochemistry $760.00; Part C, Comparative Pharmacology and Toxicology $400.00 (2-yr subscription rates: Part A, $1449.00; Part B, $1444.00; Part C, $855.00).

Specially Reduced Rates to Individuals

In the interests of maximizing the dissemination of the research results published in this important international journal we have established a two-tier price structure. Any individual whose institution takes out a library subscription may purchase a second or additional subscription for personal use at the much reduced rate of $160.00 per annum (combined subscription). Part A, Comparative Physiology $75.00; Part B, Comparative Biochemistry $75.00; Part C, Comparative Pharmacology and Toxicology $60.00. Parts A and B: Three volumes of each part per year, four issues per volume (Part A—1st of the month; Part B—15th of the month). Part C: Three volumes per year, two issues per volume (commencing Vol. 50, No. 1, 1975).

Microform Subscriptions and Back Issues

Back issues of all previously published volumes are available in the regular editions and on microfilm and microfiche. Current subscriptions are available on microfiche simultaneously with the paper edition and on microfilm on completion of the annual index at the end of the subscription year.

Copyright © 1985 Pergamon Press Limited

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organisations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

Photocopying information for users in the U.S.A.
The Item-Fee Code for this publication indicates that authorisation to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for the copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid. The appropriate remittance of $3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 21 Congress Street, Salem, MA 01970. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying. In case of doubt please contact your nearest Pergamon office.

The Item-Fee Code for this publication is: 0306-4492/85 $3.00 + 0.00

PERGAMON PRESS
HEADINGTON HILL HALL, OXFORD OX3 0BW, ENGLAND
MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523, U.S.A.

CONTENTS OF VOLUME 82

Vol. 82C, *No.* 1

C. E. Lundholm	1	Relation between Ca metabolism and ATPase activities in the subcellular fractions from duck eggshell gland mucosa after DDE administration during different stages of eggshell formation
K. L. Raheja, W. G. Linscheer, K. Chijiiwa and M. Iba	17	Inhibitory effect of propylthiouracil-induced hypothyroidism in rat on oxidative drug metabolism
Sumio Hagihara, Yumiko Komori and Anthony T. Tu	21	Proteolytic specificity of hemorrhagic toxin *b* from *Crotalus atrox* (western diamondback rattlesnake) venom
Ester Piccinni, Olimpia Coppellotti and Laura Guidolin	29	Chelatins in *Euglena gracilis* and *Ochromonas danica*
Gerald A. LeBlanc and Bruce J. Cochrane	37	Modulation of substrate-specific glutathione *S*-transferase activity in *Daphnia magna* with concomitant effects on toxicity tolerance
Julie A. Scott, Terry L. Johnson and Charles O. Knowles	43	Biogenic amine uptake by nerve cords from the American cockroach and the influence of amidines on amine uptake and release
Roy T. Krout and William A. Dunson	49	Stimulation of sodium efflux in air-breathing fish exposed to low pH
Dafydd G. Thomas, Michael W. Brown, David Shurben, John F. del G. Solbe, Anthony Cryer and John Kay	55	A comparison of the sequestration of cadmium and zinc in the tissues of rainbow trout (*Salmo gairdneri*) following exposure to the metals singly or in combination
Yoshiro Miura	63	Seasonal change and sex difference in laurate hydroxylase activity in frog liver microsomes
Mario B. Marrero and Stanley D. Hillyard	69	Differences in c-AMP levels in epithelial cells from pelvic and pectoral regions of the toad skin
M. Midol-Monnet, M. Heimburger, M. Davy, F. Beslot, J. Wepierre, Y. Cohen and J. Barre	75	Acute haemodynamic effects and tissue distribution of acebutolol in normotensive and spontaneously hypertensive rats
Jörgen Jensen and Susanne Holmgren	81	Neurotransmitters in the intestine of the Atlantic cod, *Gadus morhua*
J. D. Thomas, G. T. Ndifon and F. M. A. Ukoli	91	The carboxylic and amino acid chemoreception niche of *Bulinus rohlfsi* (Clessin), the snail host of *Schistosoma haematobium*
Madeleine M. Mazeaud, Jean-Luc Elghozi, Dominique Laude and Kim-Hanh Le Quan-Sang	109	Effects of saltwater adaptation on serotonin metabolite concentrations in the cerebrospinal fluid of rainbow trout (*Salmo gairdneri*)
Peter J. Rombough	115	The influence of the zona radiata on the toxicities of zinc, lead, mercury, copper and silver ions to embryos of steelhead trout *Salmo gairdneri*
Larry Dashow and August Epple	119	Plasma catecholamines in the lamprey: intrinsic cardiovascular messengers?
John U. Bell and Joanne M. Lopez	123	Isolation and partial characterization of a cadmium-binding protein from the liver of alligators exposed to cadmium

Shoji Shibata, Shoichi Ueda and Nobuhiro Satake	129	The inhibitory actions of acebutolol and propranolol c the contractile response to 5-hydroxytryptamine in vario isolated vascular smooth muscles
Robert M. Campbell and Colin G. Scanes	137	Adrenergic control of lipogenesis and lipolysis in the chick *in vitro*
Steven R. Vigna, Barbara L. Fischer, James L. M. Morgan and Grace L. Rosenquist	143	Distribution and molecular heterogeneity of cholecystokini like immunoreactive peptides in the brain and gut of t rainbow trout, *Salmo gairdneri*
I. Kiss and Katalin S.-Rózsa	147	Effect of new organophosphates on the membrane of identifi central neurons of *Helix pomatia* L. (Mollusca, Gastropod
Mona Sharkawy Aly, Mohamed Ismail Mohamed, Taghride Abdel Rahman and Somaya Moustafa	155	Studies of contents of norepinephrine and 5-hydroxytryp amine in brain—I. Normal and cold exposure
Taghride Abdel Rahman, Mohamed Ismail Mohamed, Mona Sharkawy Aly and Somaya Moustafa	159	Studies of contents of norepinephrine and 5-hydroxytryp amine in brain—II. Effect of sodium barbitone and chlo promazine
J. A. Dean, M. G. Ford and L. D. Leake	165	A new approach to the analysis of complex dose–respon relationships: a multivariate study of octopamine action on t leech Leydig neurone
F. A. Wali	171	Effect of anaesthetics on calcium-induced luminescence aequorin
A. A. Hassoni, G. A. Kerkut and R. J. Walker	179	The action of cholinomimetic and cholinolytic agents, hem cholinium-3 and α- and β-bungarotoxin on the body wa muscle of the earthworm, *Lumbricus terrestris*
D. F. H. Dougan and D. N. Wade	193	Octopamine receptors in the molluscan aortic bulb: effects clozapine and chlordimeform
Manuel Correa, Robert A. Coler, Chih-Ming Yin and Barney J. Venables	199	The impact of depressed pH and elevated aluminum conce trations on specific dynamic action in *Somatochlora cingula* (de Selys)
J. B. Messenger, M. Nixon and K. P. Ryan	203	Magnesium chloride as an anaesthetic for cephalopods
Ph. Sebert and L. Barthelemy	207	Hydrostatic pressure and adrenergic drugs (agonists ar antagonists): effects and interactions in fish
A. B. Ebeigbe and C. P. Aloamaka	213	Barium and strontium as calcium substitutes for contracti responses in the rat tail artery
B. Asztalos and J. Nemcsók	217	Effect of pesticides on the LDH activity and isoenzyme patte of carp (*Cyprinus carpio* L.) sera
Tommy Andersson, Ulla Koivusaari and Lars Förlin	221	Xenobiotic biotransformation in the rainbow trout liver ar kidney during starvation
Poul Bjerregaard and Tone Vislie	227	Effects of mercury on ion and osmoregulation in the shore cr *Carcinus maenas* (L.)
N. Ling and R. M. G. Wells	231	Plasma catecholamines and erythrocyte swelling followi capture stress in a marine teleost fish
Alan R. Gingle	235	Acetylcholine and carnitine sensitive growth in a *Drosoph* cell line
Yasunori Morio, Kazu Takeno, Osamu Yagasaki and Iwao Yanagiya	243	Involvement of the cholinergic mechanism in DDT ar dieldrin action in the insect central nervous system

Yoshikatsu Mochizuki, Kazuo T. Suzuki, Hiroyuki Sunaga, Tohru Kobayashi and Rikuo Doi 249 Separation and characterization of metallothionein in two species of seals by high performance liquid chromatography–atomic absorption spectrophotometry

A. B. Bodine, C. A. Luer and S. Gangjee 255 A comparative study of monooxygenase activity in elasmobranchs and mammals: activation of the model pro-carcinogen aflatoxin B_1 by liver preparations of calf, nurse shark and clearnose skate

Ernst Florey, Francoise Dubas and Roger T. Hanlon 259 Evidence for L-glutamate as a transmitter substance of motoneurons innervating squid chromatophore muscles

A. R. Gwosdow, E. L. Besch, C. L. Chen and W. I. Li 269 The effects of acclimation temperature on pituitary and plasma beta-endorphin in rats at 32.5°C

Stephen W. Shaner and Allen W. Knight 273 The role of alkalinity in the mortality of *Daphnia magna* in bioassays of sediment-bound copper

M. J. McBroom and J. D. Welty 279 Effects of taurine and verapamil on heart calcium in hamsters and rats

R. Yousri and W. Hanke 283 The effects of pentachlorophenol, phenol and other pollutants on the liver of carp (*Cyprinus carpio* L.)

M. Christine McGahan, Ruth L. Hazard and P. J. Bentley 291 Melittin-induced changes in Na and Cl movements across the skin and cornea (*in vitro*) of the toad *Bufo marinus*

S. Braddon-Galloway and J. E. Balthrop 297 Se-dependent GSH-peroxidase isolated from black sea bass (*Centropristis striata*)

S. Marshall Adams, C. A. Burtis and J. J. Beauchamp 301 Integrated and individual biochemical responses of rainbow trout (*Salmo gairdneri*) to varying durations of acidification stress

B. L. Slomiany, W. Laszewicz, V. L. N. Murty, M. Kosmala and A. Slomiany 311 Effect of sucralfate on the viscosity and retardation of hydrogen ion diffusion by gastric mucus glycoprotein

D. Shepherd and N. M. Tyrer 315 Inhibition of GABA uptake potentiates the effects of exogenous GABA on locust skeletal muscle

K. Haya, B. A. Waiwood and L. Van Eeckhaute 323 Disruption of energy metabolism and smoltification during exposure of juvenile Atlantic salmon (*Salmo salar*) to low pH

R. H. Fetterer and J. F. Urban Jr. 331 The inhibition of growth and development of *Ascaris suum* larvae *in vitro* by proline analogs

J. L. Wilkens, A. J. Mercier and J. Evans 337 Cardiac and ventilatory responses to stress and to neurohormonal modulators by the shore crab, *Carcinus maenas*

Yasushi Kubota, Youichi Watanabe, Hisako Otsuka, Toru Tamiya, Takahide Tsuchiya and Juichiro J. Matsumoto 345 Purification and characterization of an antibacterial factor from snail mucus

D. B. Sattelle and H. Breer 349 Purification by affinity-chromatography of a nicotinic acetylcholine receptor from the CNS of the cockroach *Periplaneta americana*

Mario Pellegrino, Michela Matteoli and Laura Bertolacci 353 Effect of colchicine and vinblastine on identified leech neurons

C. G. Acevedo and E. Contreras 357 Possible involvement of adenine nucleotides in the neurotransmission of the mouse urinary bladder

Robert B. Hill and Peter Licis	363	Lanthanum and caffeine affect both membrane responses an force in a molluscan muscle, the radular protractor of *Busyco canaliculatum*
Roger D. Farley	377	Cardioregulation in the desert scorpion, *Paruroctonu mesaensis*
Lech Zychlinski and Mark R. Montgomery	389	Chlorphentermine inhibits pulmonary mitochondrial monoamine oxidase
Mary M. Cooney, C. H. Conaway and Ivan N. Mefford	395	Epinephrine, norepinephrine and dopamine concentrations i amphibian brain
R. G. Allen, P. L. Toy, R. K. Newton, K. J. Farmer and R. S. Sohal	399	Effects of experimentally altered glutathione levels on life span metabolic rate, superoxide dismutase, catalase and inorgani peroxides in the adult housefly, *Musca domestica*
Kyosuke Temma, Toshiaki Hirata, Takio Kitazawa and Hiroshi Kondo	403	Isoproterenol-induced desensitization to the positive inotropi effect of isoproterenol in ventricular strips isolated from car heart (*Cyprinus carpio*)
Conchita Zuazaga and José del Castillo	409	Generation of calcium action potentials in crustacean muscl fibers following exposure to sulfhydryl reagents
T. R. Hall, R. W. Lea, D. M. Vowles and S. Harvey	417	Biochemistry and physiology of monoamine oxidase (MAO activity in the ring dove (*Streptopelia risoria*)—I. Characteristics of MAO activity *in vitro*
T. R. Hall, R. W. Lea, S. Harvey and D. M. Vowles	423	Biochemistry and physiology of monoamine oxidase (MAO activity in the ring dove (*Streptopelia risoria*)—II. Distributio of MAO in different tissues
J. C. David, J. F. Coulon and M. Lafon-Cazal	427	Octopamine changes in nervous and non-nervous tissues of th locust, *Locusta migratoria* L., after different flight condition
W. A. Maher	433	Distribution of arsenic in marine animals: relationship to die
J. van Marle, T. Piek, A. Lind and J. van Weeren-Kramer	435	Specificity of two insect toxins as inhibitors of high affinit transmitter uptake
J. L. Rivière, G. Grolleau and J. Bach	439	Hepatic biotransformation in the buzzard (*Buteo buteo*) an the Japanese quail (*Coturnix coturnix*): effect of PCBs
M. J. J. Ronis and C. H. Walker	445	Species variations in the metabolism of liposoluble organochlorine compounds by hepatic microsomal monooxygenas comparative kinetics in four vertebrate species
Cristina Pérez, Ricardo Cruciani, Modesto C. Rubio and Francisco J. E. Stefano	451	Benzodiazepine binding sites in rat submaxillary gland: absence of markers of GABA system
M. A. Pass, M. W. Goosem and S. Pollitt	457	A relationship between hepatic metabolism of reduce lantadene A and its toxicity in rats and sheep
T. B. Ng	463	Adrenergic control of lipolysis in adipocytes of several mammalian species
M. Mohamed Fathi and A. Mohamed Asaad	467	Effect of tranquilizers on the total acetylcholine content an acetylcholinesterase activity in the brain tissue of *Arvicanth niloticus*
M. L. Leret and A. Fraile	475	The effects of adrenalectomy on the ontogenesis of brai noradrenaline and dopamine content
J. L. Díaz-Juárez, E. Arilla and J. C. Prieto	479	Influence of ligation of pancreatic and bile ducts on th interaction of vasoactive intestinal peptide with rat duoden epithelial cells
L. Foti, I. Trara Genoino and G. Agnisola	483	*In vitro* cardiac performance in *Octopus vulgaris* (Lam)

abil Al-Sabti	489	Carcinogenic–mutagenic chemicals induced chromosomal aberrations in the kidney cells of three cyprinids
aul J. Dierickx	495	Hepatic glutathione *S*-transferases in rainbow trout and their interaction with 2,4-dichlorophenoxyacetic acid and 1,4-benzoquinone
aria A. Visconti and **na M. L. Castrucci**	501	Tris buffer effects on melanophore aggregating responses

AUTHOR INDEX

Vol. 82**C**, *Nos.* 1–2

Acevedo, C. G. 357
Adams, S. M. 301
Agnisola, G. 483
Al-Sabti, K. 489
Allen, R. G. 399
Aloamaka, C. P. 213
Aly, M. S. 155, 159
Andersson, T. 221
Arilla, E. 479
Asaad, A. M. 467
Asztalos, B. 217

Bach, J. 439
Balthrop, J. E. 297
Barre, J. 75
Barthelemy, L. 207
Beauchamp, J. J. 301
Bell, J. U. 123
Bentley, P. J. 291
Bertolacci, L. 353
Besch, E. L. 269
Beslot, F. 75
Bjerregaard, P. 227
Bodine, A. B. 255
Braddon-Galloway, S. 297
Breer, H. 349
Brown, M. W. 55
Burtis, C. A. 301

Campbell, R. M. 137
del Castillo, J. 409
Castrucci, A. M. L. 501
Chen, C. L. 269
Chijiiwa, K. 17
Cochrane, B. J. 37
Cohen, Y. 75
Coler, R. A. 199
Conaway, C. H. 395
Contreras, E. 357
Cooney, M. M. 395
Coppellotti, O. 29
Correa, M. 199
Coulon, J. F. 427
Cruciani, R. 451
Cryer, A. 55

Dashow, L. 119
David, J. C. 427
Davy, M. 75
Dean, J. A. 165
Diaz-Juarez, J. L. 479
Dierickx, P. J. 495
Doi, R. 249
Dougan, D. F. H. 193
Dubas F. 259
Dunson, W. A. 49

Ebeigbe, A. B. 213
Elghozi, J.-L. 109
Epple, A. 119
Evans, J. 337

Farley, R. D. 377
Farmer, K. J. 399
Fathi, M. M. 467
Fetterer, R. H. 331
Fischer, B. L. 143
Florey, E. 259
Ford, M. G. 165
Forlin, L. 221
Foti, L. 483
Fraile, A. 475

Gangjee, S. 255
Genoino, I. T. 483
Gingle, A. R. 235
Goosem, M. W. 457
Grolleau, G. 439
Guidolin, L. 29
Gwosdow, A. R. 269

Hagihara, S. 21
Hall, T. R. 417, 423
Hanke, W. 283
Hanlon, R. T. 259
Harvey, S. 417, 423
Hassoni, A. A. 179
Haya, K. 323
Hazard, R. L. 291
Heimburger, M. 75
Hill, R. B. 363
Hillyard, S. D. 69
Hirata, T. 403
Homlgren, S. 81

Iba, M. 17

Jensen, J. 81
Johnson, T. L. 43

Kay, J. 55
Kerkut, G. A. 179
Kiss, I. 147
Kitazawa, T. 403
Knight, A. W. 273
Knowles, C. O. 43
Kobayashi, T. 249
Koivusaari, U. 221
Komori, Y. 21
Kondo, H. 403
Kosmala, M. 311
Krout, R. T. 49
Kubota, Y. 345

Lafon-Cazal, M. 427
Laszewicz, W. 311
Laude, D. 109
Le Quan-Sang, K.-H. 109
LeBlanc, G. A. 37
Lea, R. W. 417, 423
Leake, L. D. 165
Leret, M. L. 475
Li, W. I. 269
Licis, P. 363
Lind, A. 435
Ling, N. 231
Linscheer, W. G. 17
Lopez, J. M. 123
Luer, C. A. 255
Lundholm, C. E. 1

Maher, W. A. 433
van Marle, J. 435
Marrero, M. B. 69
Matsumoto, J. J. 345
Matteoli, M. 353
Mazeaud, M. M. 109
McBroom, M. J. 279
McGahan, M. C. 291
Mefford, I. N. 395
Mercier, A. J. 337
Messenger, J. B. 203
Midol-Monnet, M. 75
Miura, Y. 63
Mochizuki, Y. 249
Mohamed, M. I. 155, 159
Montgomery, M. R. 389
Morgan, J. L. M. 143
Morio, Y. 243
Moustafa, S. 155, 159
Murty, V. L. N. 311

Ndifon, G. T. 91
Nemcsok, J. 217
Newton, R. K. 399
Ng, T. B. 463
Nixon, M. 203

Otsuka, H. 345

Pass, M. A. 457
Pellegrino, M. 353
Perez, C. 451
Piccinni, E. 29
Piek, T. 435
Pollitt, S. 457
Prieto, J. C. 479

Raheja, K. L. 17
Rahman, T. A. 155, 159
Riviere, J. L. 439
Rombough, P. J. 115
Ronis, M. J. J. 445
Rosenquist, G. L. 143

Rubio, M. C. 451
Ryan, K. P. 203

S.-Rozsa, K. 147
Satake, N. 129
Sattelle, D. B. 349
Scanes, C. G. 137
Scott, J. A. 43
Sebert, Ph., 207
Shaner, S. W. 273
Shepherd, D. 315
Shibata, S. 129
Shurben, D. 55
Slomiany, A. 311
Slomiany, B. L. 311
Sohal, R. S. 399
Solbe, J F. del G. 55
Stefano, F. J. E. 451
Sunaga, H. 249
Suzuki, K. T. 249

Takeno, K. 243
Tamiya, T. 345
Temma, K. 403
Thomas, D. G. 55
Thomas, J. D. 91
Toy, P. L. 399
Tsuchiya, T. 345
Tu, A. T. 21
Tyrer, N. M. 315

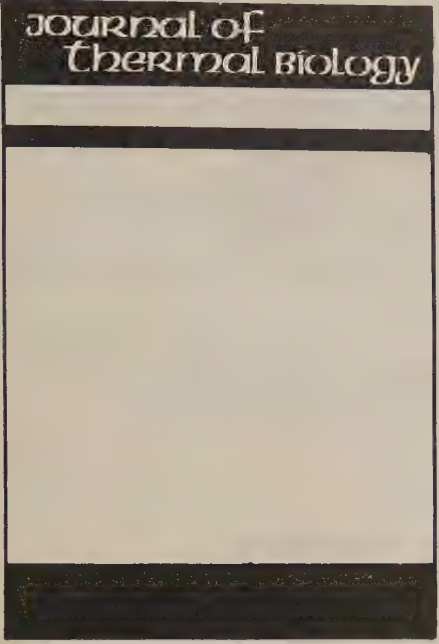
Ueda, S. 129
Ukoli, F. M. A. 91
Urban, J. F. Jr., 331

Van Eeckhaute, 323
Venables, B. J. 199
Vigna, S. R. 143
Visconti, M. A. 501
Vislie, T. 227
Vowles, D. M. 417, 423

Wade, D. N. 193
Waiwood, B. A. 323
Wali, F. A. 171
Walker, C. H. 445
Walker, R. J. 179
Watanabe, Y. 345
van Weeren-Kramer, J. 435
Wells, R. M. G. 231
Welty, J. D. 279
Wepierre, J. 75
Wilkens, J. L. 337

Yagasaki, O. 243
Yanagiya, I. 243
Yin, C.-M. 199
Yousri, R. 283

Zuazaga, C. 409
Zychlinski, L. 389



JOURNAL OF THERMAL BIOLOGY

Editors: K BOWLER, *Department of Zoology, University of Durham, Durham DH1 3LE, UK* and
J E HEATH, *Department of Physiology and Biophysics, University of Illinois, Urbana, IL 61801, USA*
Assisted by an Editorial Board

The journal publishes results of work in which the central theme is the mechanisms by which temperature affects living organisms. It is wide in scope and includes studies at the biochemical and physiological level and also at the level of the organism. The following are examples of the subject areas covered:

* The mechanisms of cellular heat and cold injury, and of the resistance of organisms to extremes of temperature.
* Behavioural and physiological regulation of body temperature.
* Review articles.

A selection of papers

Thermal acclimation and oxygen consumption rates in neotenic grey-belly salamanders, Eurycea multiplicata griseogaster (Plethodontidae), from an Arkansas cave, C T MCALLISTER & L C FITZPATRICK.
Application of a weighing system for measuring total evaporative water losses in large ruminants, C R HOLMES.
Body size and the control of heat exchange in alligators, J S TURNER & C R TRACY.
Light-dark variations of oxygen consumption and subcutaneous temperature in young Gallus domesticus: influence of ambient temperature and depilation, H MICHELS *et al.*

Subscription Information

Published quarterly (Volume 11)	
Annual subscription (1986)	**US$120.00**
Two-year rate (1986/87)	**US$228.00**

FREE SAMPLE COPIES AVAILABLE ON REQUEST

Advertising rate card available on request.
Back issues and current subscriptions are also available in microform.
Prices are subject to change without notice. Journal prices include postage and insurance. Sterling prices are available to UK and Eire customers on request.

Pergamon Press
Headington Hill Hall, Oxford OX3 0BW, UK
Fairview Park, Elmsford, New York 10523, USA

1A/7/8/85

NUTRITION RESEARCH

Editor-in-Chief
R K CHANDRA

PERGAMON PRESS

NUTRITION RESEARCH

The International Medium for Rapid Publication of Communications in the Nutritional Sciences

Editor-in-Chief: R K CHANDRA, *Janeway Child Health Centre, St John's, Newfoundland A1A 1R8, Canada*

Nutrition Research publishes major papers and research articles covering basic and applied research on all aspects of nutritional science. The journal covers current topics such as nutritional biochemistry and metabolism; nutrient requirements in health and disease; digestion and absorption of food, nutritional anthropology and epidemiology; the impact of nutritional intake on disease response, work performance and behavior; the consequences of nutritional deficiency on growth and development, endocrines, nervous system and immunity; food intolerance and allergy; nutrient-drug interactions; nutrition and aging; nutrition and cancer; obesity; intervention programs and socioeconomic factors. Papers on nutritional research in both man and animals will be considered for publication.

A distinguished worldwide editorial board ensures authoritative paper selection. The journal also includes book reviews, editorials, commentaries and conference summaries. Relevant papers are welcomed for editorial consideration.

Subscription Information

Published monthly (Volume 6)	
Annual subscription (1986)	**US$190.00**
Two-year rate (1986/87)	**US$361.00**

A selection of papers

Nutrition and length of gestation, H DELGADO *et al.*
Energy cost of activities and tasks of women from a rural region of Guatemala, B TORUN *et al.*
Nutrition and immunocompetence of the elderly: effect of short-term nutritional supplementation on cell-mediated immunity and lymphocyte subsets, R K CHANDRA *et al.*
Estimating nutrient deficiencies in a population from dietary records: the use of probability analysis, G H ANDERSON *et al.*
Maternal hemoglobin changes and their relationship to infant birth weight in mothers receiving a program of nutritional assessment and rehabilitation, A C HIGGINS *et al.*
Nutrient intakes in relation to body weight of nonobese and obese elderly females, C J LEE & G S LAWLER.
Transport of macromolecules in malnourished animals, D ROTHMAN *et al.*

New Patents Section — The journal now contains abstracts and illustrations of recently issued United States Patents and published patent applications filed from over 30 countries under the Patent Co-operation Treaty.
Software Survey Section — This new section reports developments in appropriate specialist software.

FREE SAMPLE COPIES AVAILABLE ON REQUEST
Advertising rate card available on request. Back issues and current subscriptions are also available in microform. Prices are subject to change without notice. Journal prices include postage and insurance. Sterling prices are available to UK and Eire customers on request.

Pergamon Press

Headington Hill Hall, Oxford OX3 0BW, UK
Fairview Park, Elmsford, New York 10523, USA

1E 9/5 84

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY

An International Journal

EDITOR: G. A. KERKUT (*Southampton*)

VOLUMES 80–82 A, B and C, 1985
Author and Subject Indexes

PERGAMON PRESS
OXFORD · NEW YORK
BEIJING · FRANKFURT · SÃO PAULO · SYDNEY · TOKYO · TORONTO

Comparative Biochemistry and Physiology

Editor

Professor G. A. Kerkut, Department of Physiology and Biochemistry, University of Southampton,
Southampton SO9 3TU, England (Executive Editor). Tel.: (0703) 559122

Members of the Honorary Editorial Advisory Board

T. H. Bullock (La Jolla)
C. B. Cowey (Aberdeen)
R. Fänge (Göteborg)
E. Florey (Konstanz)
W. S. Hoar (Vancouver)
H. Kinosita (Saitama)
O. Lowenstein (Birmingham)
C. Manwell (Adelaide)
H. S. Mason (Portland)
C. L. Prosser (Urbana)
J. Roche (Paris)
B. T. Scheer (Santa Barbara)
C. A. Villee (Massachusetts)
G. Wald (Harvard)
J. H. Welsh (Maine)

Publishing, Subscription and Advertising Offices: *Pergamon Press Ltd, Headington Hill Hall, Oxford OX3 0BW, England (Tel.:* Oxford 64881).

North America: *Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY* 10523, *U.S.A.*

Annual Subscription Rates 1986 (including postage and insurance)

For libraries, research establishments and all other multiple-reader institutions: combined subscription, 1-yr $1770.00; 2-yr $3363.00. Part A, Comparative Physiology $760.00; Part B, Comparative Biochemistry $760.00; Part C, Comparative Pharmacology and Toxicology $400.00 (2-yr subscription rates: Part A, $1449.00; Part B, $1444.00; Part C, $855.00).

Specially Reduced Rates to Individuals

In the interests of maximizing the dissemination of the research results published in this important international journal we have established a two-tier price structure. Any individual whose institution takes out a library subscription may purchase a second or additional subscription for personal use at the much reduced rate of $160.00 per annum (combined subscription). Part A, Comparative Physiology $75.00; Part B, Comparative Biochemistry $75.00; Part C, Comparative Pharmacology and Toxicology $60.00. Parts A and B: Three volumes of each part per year, four issues per volume (Part A—1st of the month; Part B—15th of the month). Part C: Three volumes per year, two issues per volume (commencing Vol. 50, No. 1, 1975).

Microform Subscriptions and Back Issues

Back issues of all previously published volumes are available in the regular editions and on microfilm and microfiche. Current subscriptions are available on microfiche simultaneously with the paper edition and on microfilm on completion of the annual index at the end of the subscription year.

Copyright © 1986 Pergamon Press Limited

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organisations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

Photocopying information for users in the U.S.A.
The Item-Fee Code for this publication indicates that authorisation to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for the copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid. The appropriate remittance of $3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 21 Congress Street, Salem, MA 01970. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying. In case of doubt please contact your nearest Pergamon office.

The Item-Fee Code for this publication is: 0306-4492/86 $3.00 + 0.00

PERGAMON PRESS
HEADINGTON HILL HALL, OXFORD OX3 0BW, ENGLAND
MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523, U.S.A.

AUTHOR INDEX

Volumes 80-82 A, B and C inclusive, 1985

Abad, M. 80B, 577
Abalde, M. 80A, 49
Abastado, M. 80B, 165
Abbas, M. K. 80B, 791
Abbas, S. K. 81B, 975
Abbott, B. C. 80A, 271
Abdel-Halim, M. N. 81B, 9
Abe, A. S. 80A, 53; 81A, 63
Abe, K. 80C, 347
Abouhala, A. 80A, 591
Abrahim, M. 80B, 847
Accorsi, A. 80B, 839
Acevedo, C. G. 82C, 357
Ackman, R. G. 80B, 15
Adam, S. E. I. 80C, 375; 81C, 223
Adams, S. M. 82C, 301
Adams, T. 81A, 921
Adelman, I. R. 81C, 341
Adron, J. W. 82A, 257
Affonso, M. H. T. 82B, 515
Afonso, A. M. M. 81B, 743
Agnisola, C. 80B, 67
Agnisola, G. 82C, 483
Aiken, D. E. 81B, 629
Aisa, M. C. 80B, 801
Aizman, A. 82B, 375
Akagi, M. 82B, 29
Akers, R. M. 81A, 589
Albaiges, J. 81B, 733
Albasi, C. M. 82A, 285
Aldunate, J. 81B, 47
Aleksandrowicz, Z. 80B, 901
Alemany, M. 82A, 289, 863; 82B, 143
Aletras, A. 80B, 761
Alfaro, S. 81A, 491
Al-Hassan, L. A. J. 82B, 371
Ali, A. E. 81C, 223
Ali, B. H. 81C, 167
Ali, S. N. 80B, 725
Allen, R. G. 82C, 399
Allen, W. V. 80B, 671; 81B, 281
Almeida, A. F. 82A, 189
Aloamaka, C. P. 82C, 213
Alonso, M. D. F. 80B, 623; 82B, 841
Alonso-Bedate, M. 80B, 853; 81A, 225
Al-Sabti, K. 82C, 489
Al-Sadoon, M. K. 81A, 939
Alvarez, R. A. 81B, 415
Alviano, C. S. 80B, 537
Alvino, C. S. 81B, 515
Aly, M. S. 82C, 155, 159
Amil, M. R. 82B, 197
Amir, D. 80A, 325
Amoss, M. S. 82A, 49
Anagnostides, S. T. 81B, 933
Anastassiadis, P. A. 81B, 131
Anderson, D. G. 81B, 423
Anderson, L. S. 81C, 367
Anderson, N. A. 81A, 79, 87
Anderson, P. J. 80B, 51
Anderson, P. M. 82B, 307
Andersson, T. 80B, 569; 82C, 221
Ando, S. 80B, 303; 82B, 111
Andrade, C. M. 81B, 939
Andreev, St. 81B, 491
Andres, D. 80A, 49
Andres, M. D. 81C, 401
Andrews, M. B. 82A, 301
Andrews, R. V. 82A, 725
Angluster, J. 80B, 537; 81B, 515
Ankley, G. T. 81C, 125
Antonopoulos, C. A. 80B, 761
Appel, A. G. 80A, 377
Appold, J. C. 81B, 653
Arad, Z. 81A, 769
Aragones, M. D. 81B, 771
Arai, Y. 80C, 245
Aravindan, C. M. 81A, 869
Arevalo, F. 80B, 145
Argibay, J. A. 81A, 619
Arilla, E. 81B, 1041; 82C, 479
Arinc, E. 80B, 389
Arme, C. 81A, 387, 495
Armstrong, M. K. 80A, 419
Arnal, M. 82A, 179, 435
Arnason, S. S. 81A, 769
Arnon, H. 82A, 137
Arola, Ll. 80C, 185
Arslanian, M. J. 81B, 97
Arunchalam, K. 80B, 467
Asaad, A. M. 82C, 467
Asai, H. 81B, 405, 409, 927
Asencot, M. 81A, 203
Ashby, M. D. 80A, 31
Ashorn, P. 82B, 123
Ashorn, R. 82B, 123
Ashraf, A. J. 81C, 53
Asztalos, B. 82C, 217
Atkinson, B. G. 81B, 185
Atrian, S. 81B, 949

Audesirk, G. 81A, 359; 81C, 57
Audesirk, T. 81C, 57
Aurousseau, A. M. 80C, 277
Avila, J. L. 81B, 701
Awasthi, Y. C. 82B, 17
Azzalina, J. D. 82B, 679

Bababunmi, E. A. 82B, 117
Babinski, R. 80B, 135
Bach, J. 82C, 439
Baert, J. L. 81B, 851
Baguet, F. 81C, 359
Bailey, T. J. 81B, 199
Baker, A. 80C, 291
Baker, B. S. 82B, 497
Baldner, G. L. 82B, 153
Baldridge, G. D. 82B, 559
Baldwin, B. C. 80B, 341
Baldwin, J. 80B, 327
Ballan-Dufrancais, C. 80C, 95
Ballantyne, J. S. 81B, 777
Balthrop, J. E. 80B, 213; 82C, 297
Baptista, L. F. 80A, 93
Barber, A. 80C, 175
Barbier, M. 80B, 547
Barboza, R. 81C, 419
Barham, W. T. 82A, 549
Bar-Ilan, A. 81A, 121, 571
Bar-Ilan, D. H. 81A, 103
Barling, P. M. 81B, 509
Barnes, W. S. 81A, 243; 81B, 1057
Barre, H. 81A, 347
Barre, J. 82C, 75
Barreto-Bergter, E. 80B, 543
Barrett, D. J. 80A, 99
Barretto, O. C. O. 82B, 317
Barrionuevo, M. 80C, 381
Barron, M. G. 81C, 341
Barthelemy, L. 82C, 207
Bassols, A. 81B, 981
Bast, R. E. 80B, 409
Batlle, A. M. del C. 82B, 751
Batrel, Y. 82B, 217
Baum, B. J. 81C, 121
Baxter, D. 81B, 755
Beale, D. 80B, 181
Beauchamp, J. J. 82C, 301
Beaulieu, J.-F. 82A, 91
Becak, W. 82B, 515
Beccari, T. 80B, 923
Beck, U. 81B, 863
Becker, B. A. 81A, 93, 755
Becker, C. 80C, 47
Becker, R. R. 81B, 199
Becker, W. 81B, 1001
Beenakkers, A. M. Th. 81A, 915
Beis, A. 81B, 245, 671
Beis, I. 82B, 405
Beitinger, T. L. 80C, 253; 82A, 553
Beitz, D. C. 81B, 667; 82B, 153
Belarbi, A. 80A, 591
Belcher, J. D. 81B, 87
Beleslin, B. 82A, 763
Beleslin, B. B. 81C, 323
Belfrage, P. 80B, 609
Belknap, R. W. 82A, 725
Bell, J. U. 82C, 123
Bell, M. V. 81B, 193
Belleville, J. 80C, 277
Belyaeva, E. A. 80A, 393
Benhura, M. A. N. 80B, 821
Beninger, P. G. 81B, 591; 82A, 945
Benkhay, A. 81B, 485
Benlamlih, S. 80A, 591
Benndorf, R. 82B, 787
Bennett, M. B. 81C, 411
Bennett, R. Jr. 82B, 711
Benoit, P. A. 80C, 109
Benson, A. A. 82B, 293
Bentley, P. J. 82C, 291
Benton, D. 80C, 273
Benyamin, Y. 81B, 447
Berdyshev, G. D. 81B, 543
Berg, T. 82B, 683
Berglind, R. 80C, 407
Berlan, M. 81C, 181
Berman, D. M. 81C, 203
Bernard, A. 82A, 693
Berning, W. 80B, 859
Barrios, A. 81A, 15
Berrocal, F. 80B, 551
Bertin, R. 81B, 797
Bertolacci, L. 82C, 353
Besancon, J. 82A, 681
Besch, E. L. 82C, 269
Beslot, F. 82C, 75
Besnard, J. Y. 82B, 425
Best-Belpomme, M. 81B, 1009
Bewaji, C. O. 82B, 117
Bianconcini, M. S. C. 80A, 1
Bidigare, R. R. 80B, 401
Bieber, A. 82A, 131
Bieber, L. L. 80A, 123
Biegniewska, A. 80A, 257; 80B, 901
Bikhazi, A. B. 80A, 5
Bill, R. G. 80A, 333
Bishop, S. H. 82B, 129
Bissonnette, J. M. 80A, 369
Bittar, E. E. 80C, 421; 81A, 469; 81C, 247, 345
Bittorf, T. 81B, 73
Bizri, M. 80B, 693; 82B, 157
Bjerregaard, P. 82C, 227
Bjornhag, G. 82A, 537
Bjornsson, B. Th. 81A, 593

Blaauboer, B. J. 81B, 1027
Blanquet, R. S. 81B, 661
Blass, J. P. 80C, 285, 291
Bledsoe, S. C. Jr. 80C, 313
Blincoe, C. 81A, 507
Bloemen, R. E. B. 81A, 915; 82A, 627
Blomquist, G. J. 82B, 137
Blum, V. 82A, 429
Blust, R. 81A, 423; 81B, 423
Bobbin, R. P. 80C, 313
Bober, M. A. 81A, 93
Bober, M. B. 81A, 755
Bodine, A. B. 82A, 255
Bodnaryk, R. P. 80B, 419
Bohdaneczky, E. 80A, 41
Bond, U. M. 80B, 89
Bonvino, V. 80B, 1
Boot, J. H. 81B, 959
Borgatti, A. R. 80B, 23; 81A, 127
Bornancin, M. 81A, 35
Botte, V. 82A, 855
Bottjer, K. P. 82B, 99
Bottke, W. 81B, 325
Bouchet, J. Y. 80A, 69
Bouhours, J.-F. 80B, 693; 82B, 157
Bounias, M. 80B, 451
Bouquegneau, J. M. 80C, 95
Bourkaik, A. 80A, 591
Bourne, A. R. 81B, 793
Bowman, C. E. 81B, 353
Boyd, P. J. 81C, 233, 379
Boyles, H. P. 81C, 109
Bozal, J. 82B, 805
Brackenbury, J. H. 82A, 851
Braddon, S. A. 80B, 213
Braddon-Galloway, S. 82C, 297
Bradley, G. 82B, 829
Bragg, J. 80C, 155
Brain, P. F. 80C, 273
Braunitzer, G. 80B, 747
Breer, H. 81C, 219; 82C, 349
Bremner, T. A. 80B, 521
Brenner, R. R. 82A, 339; 82B, 187, 793
Bresler, V. M. 80A, 393
Bretschneider, F. 80A, 191
Brey, P. T. 82A, 401
Brichon, G. 82B, 425
Bridges, C. D. B. 81B, 415
Brighenti, L. 80A, 135
Brill, R. W. 81A, 49
Brink, D. 81A, 15
Brockman, R. P. 81A, 255; 82B, 265
Brodbeck, U. 80C, 263
Broertjes, J. J. S. 80A, 141
Brooks, M. 82A, 667
Brown, A. C. 82A, 425
Brown, I. D. 81A, 287, 293, 303
Brown, M. W. 82C, 55
Brown, R. G. 81B, 149
Brown, W. D. 81B, 809
Brustovetsky, N. N. 82B, 545
Bruyere, H. E. Jr. 82B, 525
Buchmann, S. L. 82A, 499; 82B, 137
Buck, N. 81A, 63
Buckley, N. M. 80A, 399
Bunck, C. M. 80C, 431
Bundy, D. A. P. 81B, 373
Burbelo, P. D. 81B, 845
Burger, J. 81C, 287
Burken, R. R. 81A, 213; 81B, 315
Burnstock, G. 81C, 307
Burstein, M. 81C, 439
Burtis, C. A. 82C, 301
Burton, F. G. 81A, 137, 377; 82A, 735
Bushnell, P. G. 81C, 391
Busnel, M.-C. 80A, 225
Buso, P. 81C, 469
Butler, D. G. 81A, 353, 487

Cabezas, J. A. 80B, 149, 347, 629
Cain, G. D. 80B, 791; 82B, 299, 469, 479, 487
Cain, J. R. 80A, 433; 82A, 925
Caligiuri, M. A. 81A, 603
Callard, I. P. 81B, 467; 82A, 891
Calvayrac, R. 81B, 1009
Calvert, D. T. 80B, 617
Calvert, R. 82A, 91
Calvo, P. 80B, 149
Campan, M. 82A, 225
Campbell, J. D. 81A, 597
Campbell, R. M. 82C, 137
Campos, M. 80B, 45
Campos, M. S. 80C, 381
Canales, J. 81B, 837
Cano, M. J. 80B, 35
Capriglione, T. 80B, 441
Caprio, J. 81A, 525
Caputa, M. 81A, 165
Cardenas, P. 81A, 391
Care, A. D. 81B, 975
Carey, C. 82A, 847
Cargill, A. S. 80B, 257
Carlier, H. 82A, 693
Carlson, K. C. Jr. 80C, 291
Carnevali, O. 82A, 855
Carpene, E. 80B, 109; 81B, 123
Carreras, J. 80B, 551; 81B, 737, 981
Carreras, M. 81B, 737
Carvajal, N. 82B, 63
Carverhill, P. 82A, 621

Casaro, A. 81B, 535
Casavola, V. 80A, 329
Casey, C. A. 82B, 307
Castex, Ch. 81A, 277
Castex, H. 82A, 401
Castro, G. 82A, 847
Castrucci, A. M. De L. 81A, 1
Castrucci, A. M. L. 82C, 501
Catalan, R. E. 81B, 771
Catanese, J. J. 80B, 507
Cattani, O. 81B, 123
Cazzulo, J. J. 80B, 563; 81B, 1019
Ceasar, G. 80C, 313
Cenini, P. 81C, 213
Ceruti, M. G. 82A, 505
Cetinkaya, N. 80B, 773
Chabanny, V. N. 81B, 543
Chacin, J. 81C, 419
Chambers, G. 80C, 421
Champion, J. 80B, 77, 89
Champney, T. H. 80A, 575
Chang, R. J. 80B, 697
Chaplin, M. F. 82B, 179
Chaplin, R. K. 82B, 265
Chapman, D.J. 81A, 885
Charakchieva, S. 81B, 491
Chararas, C. 80B, 57, 241; 82B, 327
Chase, S. F. 81B, 1053
Cheah, A. M. 82B, 287
Cheah, K. S. 82B, 287
Chelomin, V. P. 80B, 867
Che Mat, C. R. B. 82A, 705, 711, 719
Chen, C. L. 82C, 269
Cheong, W. H. 82B, 275
Chesnel, A. 81B, 385
Chesy, G. 81A, 165
Chiang, G. L. 82B, 275
Chichery, M.-P. 80C, 415
Chichery, R. 80C, 415
Chichester, C.O. 81B, 845
Chijiiwa, K. 82C, 17
Chinn, K. S. 80A, 233
Chipoulet, J.-M. 80B, 241; 82B, 327
Chiu, K. W. 81C, 445
Choshniak, I. 82A, 137
Chrispeels, J. 82B, 163
Christiansen, D. C. 82A, 201
Christie, W. W. 80B, 617
Christophe, B. 81C, 359
Chung, M. C.-M. 80B, 287; 82B, 147
Ciaglowski, R. E. 82B, 715
Ciereszko, A. 80B, 135
Clamp, J. R. 80B, 909
Clandinin, M. T. 81B, 53
Clark, J. 81B, 217, 695
Claude, P. 81B, 393
Clauss, W. 81A, 873; 82A, 71
Clegg, R. A. 81B, 909
Clendinnen, G. 80C, 277
Climent, F. 81B, 737
Clopton, J. R. 80A, 469
Cobb, J. L. S. 80A, 11; 82A, 395
Cobror, O. 80B, 441
Cochrane, B. J. 82C, 37
Cockcroft, A. C. 81A, 143
Coenen-Staβ, D. 81B, 717
Cohen, A. C. 81A, 833; 81B, 165
Cohen, Y. 82C, 75
Coirault, Y. 81B, 857
Cokendolpher, J. C. 81B, 555
Coler, R. A. 82C, 199
Colin, D. A. 81A, 695
Collawn, J. F. Jr. 81B, 901
Conaway, C. H. 82C, 395
Connock, M. J. 80B, 161
Connolly, J. G. 81A, 287, 293, 303
Contreras, E. 82C, 357
Cook, B. J. 80C, 61, 65, 241
Coombs, G. H. 81B, 1037
Coombs, T. L. 80C, 257
Cooney, M. M. 82C, 395
Cooperstein, D. F. 81A, 427
Coppellotti, O. 82C, 29
Corbett, M. D. 80C, 145, 161
Cornette, K. M. 81C, 337
Cornford, E. M. 82B, 25
Cornillon, B. 80C, 277
Correa, M. 82C, 199
Cortesi, P. 80B, 109; 81B, 123
Cotlier, E. 80B, 61
Coulombel, C. 80B, 57
Coulon, J. F. 82C, 427
Coulson, R. A. 82A, 43
Counter, S. A. 81A, 837
Couturier, C. P. 82A, 309
Cowey, C. B. 82A, 257
Cox, C. P. 82A, 145
Crane, P. D. 82B, 25
Cranford, J. A. 81A, 589
Criddle, R. S. 81B, 809
Crossley, J. 80C, 91
Crowe, A. 81A, 905
Cruciani, R. 82C, 451
Cryer, A. 80B, 127; 82C; 55
Csaba, G. 80A, 41; 82A, 567
Cucci, T. L. 80B, 401
Cudey, G. 81A, 465
Cummins, K. W. 80B, 257
Cuomo, V. 81B, 479
Cusso, R. 81B, 981
Cyrus, R. V. 82A, 131
Czarnecki, C. M. 82A, 939

Daabees, A. Y. 81C, 139, 145
Da Cruz, M. E. M. 80B, 157
Dadd, R. H. 81B, 749
Daguzan, J. 80B, 103
Dalich, G. M. 80C, 115
Dalrymple-Alford, J. C. 80C, 273
da Matta, A. N. 81B, 969
da Matta, J. T. 81B, 969
Damiani, P. 80A, 225
Daniel, W. L. 82B, 55
Danilova, L. S. 82B, 545
Darcel, C. Le Q. 80B, 743
Darzens, D. 80B, 57
Das, A. 81B, 341
Das, A. B. 81B, 341
Dashow, L. 82C, 119
Dauncey, M. J. 80A, 363 559; 82A, 1; 82B, 287
Davagnino, J. 80B, 485
Davenport, J. 81A, 857
David, J. C. 82C, 427
Davie, P. S. 81A, 643
Davies, D. D. 80B, 831
Davis, J. P. 81A, 899
Davis, P. J. 80C, 155
Davy, M. 82C, 75
Dawes, C. 80C, 347
Dawson, T. J. 81A, 445; 81B, 445
Daxboeck, C. 81A, 49
de Almeida-Val, V. M. F. 80B, 737
Dean, J. A. 82C, 165
Dean, R. L. 81B, 185
Deaton, L. E. 80A, 571
de Bianchi, A. G. 80B, 895
de Cazzulo, B. M. F. 81B, 1019
de Clauser, R. 81B, 479
de Freitas, T. V. 81B, 743
Deftos, L. J. 81A, 593
Degani, G. 80A, 75; 81A, 451; 81B, 451; 82A, 479, 833
deGraw, W. A. 81A, 889
Dehn, P. F. 81B, 629
De Ioannes, A. 82B, 247
Dejours, P. 81A, 259
deKloet, S. R. 81B, 1063; 82B, 555
de la Canal, L. 81B, 803
Delacourte, A. 80B, 707
De La Fuent, M. 81A, 835
de la Higuera, M. 81A, 391
de la Rosa, J. 81B, 565
del Castillo, J. 81A, 15; 82C, 409
De Loof, A. 80A, 435; 81B, 171
de Looze, S. 82B, 347, 357
de Looze, S. M. 80B, 859
del Villar, E. 81B, 691
Dematte, N. 81B, 479
DeMichele, S. J. 81B, 149
Demter, M. 81A, 229
Denison, M. S. 80C, 319; 81C, 105
de Oliveira, B. 82B, 203
de Paula, E. 82B, 203
de Quiroga, G. B. 80B, 853
Deridovich, I. I. 81C, 457
Derij, L. V. 80B, 927
De Sadeleer, J. 82B, 179
de Souza, J. F. J. 82B, 223
De Souza, W. 80B, 537; 81B, 515
De Stanchina, G. 81B, 479
de Vincentiis, M. 80B, 247
de Vlieger, T. A. 82A, 627
de Vries, I. 80B, 299
de Weille, J. R. 80A, 191
de Wit, C. A. 80A, 43; 82A, 791
Dhaliwal, S. S. 82B, 275
Dias Filho, B. P. 81B, 515
Diaz, S. 80C, 411
Diaz-Juarez, J. L. 82C, 479
Dickhoff, W. W. 81A, 807
Diehl, W. J. 81B, 401; 82A, 559
Diehl-Seifert, B. 80C, 47
Dierickx, P. J. 82C, 495
Dietrich, C. P. 82B, 223
Dinh, T. N.-L. 80B, 203
Dini, A. 81B, 111
Diniz, L. B. S. M. 82B, 317
Dixon, P. A. F. 81C, 241
Doddrell, D. M. 80B, 525
Doerge, D. R. 80C, 161
Dogovic, N. 80C, 47
Doi, R. 82C, 249
Donahue, M. J. 82B, 395
Donato, H. Jr. 81B, 901
Donner, K. 81A, 431; 81B, 431
Dougan, D. F. H. 82C, 193
Douglas, E. L. 81A, 885
Doumen, C. 81A, 423
Downing, D. T. 80B, 431; 81A, 213; 81B, 315; 82B, 229
Drew, P. A. 80B, 889
Drummond, G. I. 80B, 251; 80C, 129
D'Surney, S. J. 81B, 1063; 82B, 555
Dubas, F. 82C, 259
Dubois, W. 82A, 891
DuBowy, P. J. 82A, 899
Duff, D. 80A, 547
Duffield, R. M. 81B, 555
Duffy, D. C. 82A, 781
Duke, E. J. 81B, 683

Duke, G. E. 82A, 935
Dunson, W. A. 82C, 49
Durand, G. 82B, 581
Duthie, G. G. 81A, 879
Dutrieu, J. 81B, 485
Dutta, H. 81B, 341

Eales, J. G. 80A, 553
Eastberg, S. 81B, 819
Ebara, A. 81A, 55, 397
Ebbesson, S. O. E. 81A, 67
Ebeigbe, A. B. 82C, 213
Eddy, F. B. 81C, 259
Edens, F. W. 82A, 101
Edmonds, H. L. Jr. 82A, 701
Edwards, J. 81A, 555
Egami, N. 82A, 815
Egawa, K. 81B, 897
Egorova, V. V. 80B, 871
Eguchi, M. 81B, 301; 82B, 575
Eich, E. 80C, 47
Eisses, K. Th. 82B, 863
Ekpa, O. 81B, 555
Elcombe, B. M. 80B, 697
Elekes, K. 82A, 345
Elghozi, J.-L. 82C, 109
El Haj, A. 82A, 267
Ellingsen, T. E. 81B, 609
Ellis, L. L. 82B, 129
El-Nouty, F. D. 81A, 93, 755
Eloff, A. K. 80A, 291
Eloy, R. 80C, 277
El-Sayed, M. S. 82A, 851
Ely, S. 80A, 123
Elyakova, L. A. 81B, 677
Emerole, G. O. 81C, 133
Emery, S. H. 82A, 635
Emmanuel, B. 81B, 863
Emmerson, W. D. 81A, 71
Emmett, B. 81A, 49
Engelbrecht, C. 81B, 499
Engelftein, M. 81A, 567
Engfeldt, B. 80B, 761
England, W. R. 80B, 327
Enwelum, M. C. N. 81C, 241
Epple, A. 82C, 119
Epstein, W. L. 82B, 269
Erickson, D. L. 81A, 117
Essen-Gustavsson, B. 82A, 675
Esteves, M. J. G. 80B, 537
Etches, R. J. 80A, 103
Evans, J. 82C, 337
Evans, L. 82A, 549
Evanson, O. A. 82A, 939
Eveland, L. K. 81B, 43; 82A, 421
Ewart, W. R. 82A, 489
Ezquieta, B. 82B, 731

Fabbri, D. 81B, 123
Fairall, N. 82A, 867
Falkowski, L. 81B, 733
Famme, P. 81A, 251
Fang, L.-S. 81B, 723
Farah, S. I. 81B, 9
Faraldo, A. 81B, 837
Farkas, T. 81B, 341
Farley, R. D. 82C, 377
Farmer, K. J. 82C, 399
Farnsworth, D. E. 82B, 559
Farrell, H. M. Jr. 81B, 621
Fathi, M. M. 82C, 467
Fauconneau, B. 82A, 67, 179, 435
Faus, I. 81B, 551
Fazi, A. 80B, 839
Fedde, M. R. 81A, 185
Feder, M. E. 81A, 673
Federsoni, P. 82B, 317
Fedotcheva, N. J. 82B, 191
Fedullo, J. D. L. 82B, 317
Feenstra, B. W. A. 81A, 659; 82A, 309
Feher, T. 82A, 567
Fennessey, P. V. 82A, 505
Fenske, M. 82A, 951
Feral, J.-P. 81A, 415
Ferguson, A. 81B, 711; 82B, 95
Ferment, O. 82A, 753
Fernandez, A. 81B, 837
Fernandez, B. 82B, 549
Fernandez, P. 80A, 49
Ferreira, M. F. A. 81B, 939
Fetterer, R. H. 82C, 331
Feyereisen, R. 82B, 559
Fideu, M. D. 81B, 1067
Fiebig, E. 81A, 67
Filho, A. B. L. 81B, 531
Filho, J. L. L. 81B, 531
Fillmore, S. J. 81B, 349
Filosa, M. F. 82A, 207
Fincham, A. G. 81B, 373
Fine, J. M. 81B, 857
Finley, E. 82B, 133
Fioravanti, C. F. 81B, 335
Fiorini, J. E. 80B, 537
Fischer, B. L. 82C, 143
Fish, W. W. 81B, 901; 82B, 41
Fisher, W. F. 81B, 915
Fitzsimons, J. T. R. 80A, 247
Flatt, R. E. 82B, 153
Fleming, W. R. 80A, 547
Fletcher, G. L. 80A, 79
Fletcher, K. A. 80B, 725
Fletcher, T. C. 80C, 99; 81C, 53
Flint, D. J. 81B, 909
Floeter-Winter, L. M. 82B, 515
Florey, E. 82C, 259

Flos, R. 81C, 159
Focant, B. 82B, 737
Foglietti, M. J. 80B, 57
Fong, S-L. 81B, 415
Fong, W-F. 80B, 827
Ford, M. G. 82C, 165
Forest, D. W. 80A, 433
Forlin, L. 80B, 569; 82C, 221
Fornaini, G. 80B, 839
Foti, L. 80B, 67; 82C, 483
Fountain, D. W. 80B, 795
Fox, J. 81B, 975
Fox, J. E. 82A, 621
Fox, S. L. 80A, 303
Fragoulis, E. G. 82B, 461
Fraile, A. 81C, 405; 82C, 475
Franciolini, F. 80A, 265
Francis, R. T. Jr. 81B, 199
Frankel, J. S. 80B, 463; 81B, 635; 82B, 413
Franson, J. C. 80C, 431
Fraser, S. P. 80A, 281
Frazier, J. M. 80C, 257
Fredrikson, G. 80B, 609
Freitag, D. 81C, 273
Freminet, A. 81B, 103
Fried, B. 81B, 43; 82A, 421
Friedlander, J. K. L. 81B, 281
Friedman, T. B. 81B, 653
Frixione, E. 82A, 787
Fuentes-Pardo, B. 82A, 385
Fujii, K-I. 82A, 281
Fujii, R. 80C, 211; 81C, 1, 253
Fujimoto, Y. 80C, 141
Fujita, T. 80B, 195; 80C, 141
Fukamizo, T. 81B, 207
Fukushima, H. 80B, 817; 81B, 443, 923; 82B, 707
Fukuyama, K. 82B, 269
Fundele, R. 81B, 965
Furness, B. L. 82A, 781
Furukawa, Y. 81A, 779
Fuzeau-Braesch, S. 80C, 401; 81C, 451

Gabbott, P. A. 82B, 535
Gabrielak, T. 81C, 395
Gabrielli, M. A. 81A, 567
Gabryelak, T. 81C, 415
Gade, G. 82B, 163
Gagnon, J. 80B, 279
Galarza, A. 80B, 577
Galdiz, B. 82B, 549
Galgani, F. G. 81B, 447
Gallucci, E. 81C, 45
Galvin, M. J. 81A, 403
Gamboa, A. 81A, 491
Games, D. E. 80B, 235
Gandarias, J. M. 82B, 549
Gangjee, S. 82C, 255
Garate, A. M. 81B, 547, 1023
Garces, E. 80B, 45
Garcia, F. J. 82A, 289
Garcia, J. L. 80B, 437
Garcia, M. V. 80B, 347
Garcia-Palmer, F. J. 82B, 143
Gardner, C. R. 81C, 233
Gardner, D. R. 80A, 461
Garin, D. 80B, 693
Garnett, S. 81B, 1033
Garrido-Pertierra, A. 80B, 35
Garrone, R. 80B, 481
Gasic, M. J. 80C, 47
Gasparska, J. 80B, 309
Gatten, R. E. Jr. 80A, 441
Gaul, B. L. 80B, 431
Gavaler, J. 82A, 211
Gavilanes, J. G. 82B, 639
Gavioli, M. E. 80A, 135
Gay, C. V. 81A, 653
Gee, M. V. 81C, 121
Geen, G. H. 80A, 507
Geiser, F. 81A, 459
Gennari, K. 80C, 263
Genoino, I. T. 80B, 67; 82C, 483
George, J. C. 80A, 103
George, S. S. 80C, 257
Gerencser, G. A. 81C, 337
Geva, I. 80A, 163
Ghesquier, D. 80B, 165
Ghidalia, W. 81B, 857
Gibbs, A. 82B, 293
Gibson, A. R. 80B, 409
Gielens, C. 82B, 179
Giesecke, D. 81B, 863; 82B, 255
Gilbert, E. F. 82B, 525
Gildersleeve, R. P. 81A, 403
Giles, D. 80C, 231
Giles, D. P. 80C, 53
Gill, J. 81A, 511; 82A, 167
Gill, P. 80B, 853
Gillary, H. L. 80A, 233
Gillett, M. P. T. 80A, 149; 80B, 157; 81B, 531
Gillis, G. H. 81B, 131
Gingle, A. R. 82C, 235
Giordana, B. 80A, 425
Giovannini, E. 80B, 801, 923
Glancey, B. M. 81B, 761
Glaser, J. H. 82B, 55
Glazier, D. S. 80A, 587
Gleeson, M. 81C, 367
Gluth, G. 81C, 273
Glynn, B. P. 80B, 941
Gnaiger, E. 82A, 965
Gobbetti, A. 82A, 855
Gochfeld, M. 81C, 287
Godet, J. 80B, 481

Godoy, J. E. 81B, 771
Goldberg, S. A. 81C, 227
Goldemberg, A. L. 81B, 535
Goldstein, T. 80A, 503
Gomez, R. 81B, 547, 1023
Gomi, S. 81A, 397
Gonzalez, B. 80B, 485
Gonzalez, M. 81A, 619
Gonzalez, R. 82B, 63
Gonzalez, S. M. 82B, 187
Gonzalez-Duarte, R. 80C, 189; 81B, 949
Gonzalez-Guijarro, L. 81B, 1041
Goodman, M. 81B, 1045
Goosem, M. W. 82C, 457
Gordon, C. J. 80A, 199; 82A, 879
Gordon, K. D. 81A, 525
Gorin, P. A. J. 80B, 543
Got, R. 80B, 693; 82B, 157
Gough, A. J. E. 80B, 235
Gourdoux, L. 81B, 485
Gourlet, V. 80A, 225
Govind, C. K. 82A, 267
Gozlinski, H. 82A, 651
Gradus, M. S. 81B, 229
Graham, R. A. 81B, 885
Graham, M. S. 80A, 79
Grant, P. T. 80B, 755
Grant, W. E. 82A, 49
Grasdalen, H. 81B, 291
Greco, O. S. 80B, 113
Green, B. 81A, 441
Greenberg, M. J. 81C, 175
Greenberg, N. 81C, 81
Greenberg, R. 81B, 621
Greene, L. W. 82A, 49
Gregus, Z. 80C, 85
Grelac, F. 80B, 165
Gribskov, C. L. 81B, 393
Grieshaber, M. 82B, 337
Griffin, H. D. 82B, 321
Griffiths, M. 81A, 441
Grigg, G. C. 82A, 613
Griggio, M. A. 82A, 859
Grimm, V. 80C, 273
Grisdale, D. 82A, 117
Grolleau, G. 82C, 439
Gromadzka-Ostrowska, J. 80A, 215, 599; 82A, 651, 661
Gromysz-Kałkowska, K. 81C, 209
Gros, E. G. 80B, 338; 81B, 119
Groscolas, R. 81A, 347
Grossfeld, R. M. 81C, 471
Grossman, G. D. 81A, 117
Groves, M. L. 81B, 621
Gruener, N. 80A, 503
Grunewald, K. K. 80A, 173
Gualtieri, R. 80B, 247
Guerriero, A. 80B, 277; 81B, 479
Guidolin, L. 82C, 29
Guillen, A. 80B, 437
Guillette, L. J. 80C, 151
Guillette, L. J. Jr. 80A, 303
Guo, Y. W. 82B, 655
Guyetant, R. 81A, 465
Gwazdauskas, F. C. 81A, 171
Gwosdow, A. R. 82C, 269
Gysi, J. R. 81A, 885

Haard, N. F. 80B, 467, 475; 82B, 241
Hacker, R. R. 81B, 53
Hadley, M. E. 81A, 1
Hadley, N. F. 80A, 307
Haedrich, R. L. 80A, 79
Hagen, M. 82A, 207
Hager, S. R. 81C, 247
Hagihara, S. 82C, 21
Hahn, D. W. 81A, 847
Hai, D. Q. 81C, 395
Haigh, A. L. 81C, 367
Hailey, A. 82A, 687
Haim, A. 80A, 503; 82A, 867
Hakim, G. 80B, 109
Hall, J. E. 82B, 73
Hall, T. R. 82C, 417, 423
Hallam, S. D. 82B, 675
Halpern, M. 82B, 447
Hambolu, J. O. 81A, 185
Hameed, K. S. 82B, 241
Hamilton, J. W. 80C, 319
Hamilton, K. L. 80A, 355; 82A, 111
Hammen, C. S. 82A, 571
Hamsany, M. 81A, 277
Han, K-K. 80B, 707
Hanke, W. 81C, 273; 82C, 283
Hanlon, R. T. 82C, 259
Hanninen, K. 81A, 929
Hanson, B. J. 80B, 257
Hanson, R. 80A, 547
Hara, A. 81B, 309; 82B, 269
Hara, M. 81B, 603
Harada, E. 81A, 539
Hardeland, R. 81C, 39
Harlow, H. J. 80A, 159; 82A, 885
Haro, A. 80B, 437
Harri, M. 80A, 337; 82A, 907, 959
Harrington, J. P. 82B, 511
Harris, R. R. 82A, 301
Hartman, H. B. 82A, 525
Harvey, S. 81A, 865; 81C, 387; 82A, 285; 82C, 417, 423
Haschemeyer, A. E. V. 80B, 935; 81B, 523, 705
Haseeb, M. A. 81B, 43;

82A, 421
Hasegaea, M. 82A, 583
Hasekura, H. 82B, 707
Hashimoto, E. 81B, 641
Hashimoto, K. 80B, 203
Hashimoto, T. 82A, 645
Hasiba, U. 82A, 211
Hassan, H. F. 81B, 1037; 82B, 773
Hassoni, A. A. 82C, 179
Hasson-Veloch, A. 81B, 969
Hatano, M. 80B, 303; 82B, 111
Hattingh, J. 81B, 505
Haux, C. 81B, 275, 869; 82A, 261
Haya, K. 81B, 629; 82C, 323
Hayden, D. W. 82B, 211
Hayssen, V. 81A, 741
Hazard, R. L. 82C, 291
Heath, J. E. 80A, 199
Heavers, B. W. 82A, 571
Heimburger, M. 82C, 75
Heisinger, J. F. 80C, 295
Helle, K. B. 81A, 801
Hellgren, E. C. 82A, 49
Helling, C. 81B, 143
Helman, Y. 81C, 121
Hemila, S. 81A, 431
Hemminga, M. A. 80B, 139; 81B, 241; 82A, 239; 82B, 535
Hemmingsen, E. A. 81A, 209
Hemon, B. 80B, 707
Henderson, R. J. 81B, 193; 82B, 79
Henry, T. 82B, 95
Hergenhahn, H-G. 81B, 833
Herkovits, J. 81C, 171
Hernandorena, A. 82B, 365
Herold, J. P. 81A, 465
Herranz, J. M. J. 80B, 361
Herranz, M. J. 81B, 1067
Herranz-Santos, M. J. 81C, 375
Herrera, R. J. 81B, 429
Herrin, D. 81B, 143
Hershberger, W. K. 81A, 807
Herzberg, G. R. 81A, 911
Hestorff, T. 81B, 819
Heth, G. 80A, 503
Hidaka, H. 80B, 495
Hidalgo, J. 81C, 159
Higa, T. 82B, 107
Higgins, W. J. 80C, 325
Hightower, J. E. 81A, 117
Hilbish, T. J. 80A, 571
Hill, R. B. 80C, 337; 82C, 363
Hillyard, S. D. 82C, 69
Hilmy, A. M. 81C, 139, 145
Hinds, D. S. 81A, 687
Hinds, T. R. 82A, 601
Hirata, M. 82A, 645
Hirata, T. 82C, 403
Hird, F. J. R. 80B, 517
Hirono, T. 80B, 779
Hissa, R. 82A, 97
Hjerpe, A. 80B, 761
Ho, S-m. 81B, 467
Hochachka, P. W. 81A, 49
Hodgson, A. N. 82A, 425
Hoerschelmann, H. 81B, 945
Hoffman, D. J. 80C, 431
Hoffmann, B. 81C, 39
Hoffmann, K. 80A, 21
Hogge, L. 80B, 543
Hogstrand, C. 82A, 261
Hohtola, E. 82A, 959
Holman, G. M. 80C, 61, 65
Holmes, R. 81A, 821
Holmes, R. S. 80B, 525; 81B, 647
Holmgren, S. 80C, 105; 82C, 81
Holopainen, I. J. 82A, 797
Holtenius, K. 82A, 537
Hood, R. L. 81B, 667
Hoogland, H. P. 81B, 889
Hoo-Paris, R. 81A, 277
Horch, I. 82A, 71
Hori, H. 80B, 209
Horiike, K. 80B, 425
Horiuchi, S. 81B, 603
Hornicke, H. 82A, 71
Horowitz, M. 80A, 57; 81A, 103; 82A, 577
Horvath, L. 80B, 847
Hotta, K. 82B, 207, 419
Houlihan, D. F. 80A, 487; 82A, 105, 267
Houston, A. H. 81A, 555
Howland, J. L. 81B, 551
Hruby, V. J. 81A, 1
Hubert, M. 81B, 1009
Huca, G. 82A, 339
Hudson, R. J. 82A, 161
Hughes, S. G. 81A, 669
Hulbert, A. J. 81A, 687
Hunaiti, A. A. 81B, 251
Huner, J. V. 80A, 515
Huni, A. A. D. 81A, 869
Hunn, J. B. 82A, 543
Hunter, I. R. 80B, 77
Hunter, S. J. 82A, 13
Huriaux, F. 82B, 737
Hurwitz, S. 80A, 325
Husbands, D. R. 81B, 1
Hutchison, V. H. 82A, 391, 553
Hutter, H. J. 80B, 871
Huynh, M. S. 80B, 425
Hwang, S. J. 81B, 63
Hyvarinen, H. 82A, 797

Iba, M. 82C, 17
Ichikawa, T. 82B, 419
Idler, D. R. 81B, 63
Igbokwe, E. C. 80B, 73

Iglesias, R. 82A, 863
Iguchi, S. M. M. 81B, 897
Ikai, A. 80B, 209; 82A, 583
Ikeda, H. 81C, 7
Ikeda, S. 80B, 5, 11, 223, 227, 949; 81B, 573, 579, 583
Ilgner, R. H. 82B, 433
Illnerova, H. 80A, 21
Inagaki, M. 80B, 495
Inano, H. 81B, 55
Inclan-Rubio, V. 82A, 385
Inczefi-Gonda, A. 82A, 567
Indiveri, C. 80B, 1
Ingermann, R. L. 80A, 369
Ingram, D. L. 80A, 363, 559; 82A, 1; 82B, 287
Iniestra, M. G. 80B, 35
Innes, A. J. 80A, 487; 81A, 827; 82A, 105
Ioshimoto, L. M. 82B, 515
Ipata, P. L. 82A, 141
Irie, T. 80A, 167
Iriki, M. 82A, 77
Irving, M. G. 80B, 525
Irwin, M. E. 81B, 295
Isaia, J. 81A, 35
Isani, G. 80B, 109; 81B, 123
Iscan, M. 81C, 155
Ishihara, K. 82B, 419
Ishikawa, T. 80C, 167
Isobe, K. 80C, 123
Isola, G. 81A, 283
Itani, A. A. 81B, 97
Itani, J. H. 80A, 5
Ito, M. B. 81A, 653
Ito, Y. 80A, 415
Itoh, R. 81B, 159
Iturri, S. J. 80C, 91
Ivanovic, J. 80A, 107
Ivy, M. T. 81C, 351

Jaaskelainen, I. 80B, 41
Jablonowska, C. 80B, 381
Jacob, J. 81B, 945
Jaffe, R. C. 80A, 359
Jaffe, W. G. 82B, 375
Jager, J. C. 82A, 239
Jahani, M. 82B, 529
Jahan-Parwar, B. 80A, 529
Jain, A. K. 82B, 837
Jakubow, K. 80A, 599; 81A, 511; 82A, 167, 651
James, P. A. 82B, 815
James, T. C. 80B, 77, 89
Janic-Sibalic, V. 80A, 477
Jankovic-Hladni, M. 80A, 107
Janse, C. 82A, 459
Janska, H. 82B, 563
Jansky, L. 80A, 21
Jarve, V. 81B, 211
Jarzebski, A. 81B, 733, 989
Jeantet, A. Y. 80C, 95
Jeffrey, D. A. 81A, 911
Jeffs, S. A. 81A, 387, 495
Jego, P. 81B, 385
Jenison, G. L. 80C, 313
Jenkin, C. R. 80B, 889
Jensen, J. 82C, 81
Jezewska, M. M. 80B, 371
Johansen, K. 81A, 641
Johansson, B. W. 80A, 43
John, M. J. 81B, 509
John, T. M. 80A, 103
Johns, R. B. 80B, 315
Johnson, D. B. 80B, 941; 81B, 787
Johnson, D. C. 81B, 667
Johnson, G. S. 82B, 647
Johnson, H. D. 81A, 93, 755
Johnson, K. H. 82B, 211
Johnson, P. H. 81B, 1045
Johnson, T. L. 82C, 43
Johnson, W. J. 80B, 791; 82B, 487
Johnston, J. J. 80C, 145
Joosse, J. 80B, 139; 82A, 239
Jørgensen, L. 81B, 291
Joseph, J. D. 80B, 15
Joshua, I. G. 82A, 521
Jozwiak, Z. 81B, 823
Juarez, M. P. 81A, 473; 82B, 793
Jurss, K. 81B, 73

Kaczanowska, E. 81C, 209
Kadura, S. N. 81B, 543
Kadziela, W. 81A, 165
Kagan, H. M. 81B, 845
Kagi, J. 80C, 257
Kahana, L. 82A, 837
Kaipainen, P. 81C, 293
Kaitaranta, J. K. 82B, 699
Kalafatic, D. 80A, 107
Kalco, M. 80C, 371
Kaldy, M. S. 80B, 743
Kamau, J. M. Z. 81A, 335
Kamel, S. 82A, 217
Kamijo, K. 80C, 245
Kaminski, Z. W. 80B, 371
Kaminsky, Yu. G. 82B, 379, 385
Kampmeier, G. 81B, 295
Kaneda, Y. 81B, 815
Karam, G. A. 82B, 129
Karasawa, K. 81B, 361
Kargas, S. A. 82B, 525
Karr, S. W. 80C, 135
Kasatani, H. 80C, 141
Kase, F. 82A, 495
Kasukawa, H. 80C, 211; 81C, 253
Katagiri, K. 81B, 905
Katagiri, M. 80B, 425
Katayama, H. 81C, 279
Kato, T. 82B, 269
Katsuyama, M. 80B, 779
Kaushik, S. J. 82B, 365

Kawai, K. 80B, 817; 81B, 443, 923
Kawamura, M. 82B, 721
Kawashima, T. 82B, 763
Kay, J. 82C, 55
Keelan, M. 82A, 83
Keeley, L. L. 80A, 115
Keen, J. 81A, 555
Keisari, Y. 80A, 163
Kelly, F. J. 82B, 849
Kemnitz, J. W. 81B, 393
Keough, K. M. W. 80C, 155
Kerkut, G. A. 80A, 247; 81A, 287, 293, 303, 705; 82C, 179
Kern, M. D. 81A, 889
Kern, M. J. 81A, 501
Kerner, J. 80A, 123
Kerstetter, T. H. 80B, 671
Khotimchenko, Yu. S. 81C, 457
Khrapunov, S. N. 81B, 543
Kikuchi, A. 81B, 55
Kikuchi, M. 80B, 209
Kim, Y. 81B, 335
Kimura, S. 81B, 361
Kinemuchi, H. 80C, 245
King, F. D. 80B, 401
King, P. E. 81C, 29
Kirsanov, V. I. 80A, 297
Kirschenbaum, D. M. 82B, 447
Kishida, M. 82B, 29
Kiss, I. 82C, 147
Kitazawa, T. 82C, 403
Klandorf, H. 81A, 865
Klaude, M. 81C, 19
Klein, D. C. 80B, 731
Kleinholz, L. H. 80A, 257
Kleinow, W. 81B, 437
Kleinschmidt, T. 80B, 747
Klekot, J. 81C, 415
Klinger, T. S. 81B, 401
Klis, J. F. L. 80A, 191
Klumpp, D. W. 80B, 315
Klungsøyr, L. 82A, 201
Kluytmans, J. H. 81B, 959
Kmiecik, D. 80B, 119
Knight, A. W. 82A, 373; 82C, 273
Knight, R. A. 81B, 319
Knipper, M. 81C, 219
Knowles, C. O. 82C, 43
Knudsen, J. 81A, 251
Knull, H. R. 81B, 349
Kobayashi, K.-i. 81B, 603
Kobayashi, M. 81A, 779
Kobayashi, T. 81B, 641; 82C, 249
Kobzar, G. T. 80C, 385, 395
Koehn, R. K. 80A, 571
Koga, K. 82B, 51
Kogan, P. 80B, 773
Kohmoto, K. 81B, 473
Koivusaari, U. 81C, 293; 82C, 221
Kolaeva, S. G. 82B, 545
Komori, T. 80B, 779; 81B, 905
Komori, Y. 82C, 21
Kompanowska-Jezierska, E. 81A, 511; 82A, 167
Kondo, H. 82C, 403
Kondrashova, M. N. 82B, 191
Konjevic, D. 80A, 381
Konosu, S. 80B, 195
Koomen, W. 80B, 139
Korhonen, H. 80B, 41; 82A, 907, 959
Korte, F. 81C, 273
Kosenko, E. A. 82B, 385
Kosmala, M. 81B, 823; 82C, 311
Kotecha, N. 81C, 311
Kott, A. 81A, 511; 82A, 167
Koubi, H. 81B, 103
Koussoulakos, S. 80B, 175
Kouyanou, S. 82B, 461
Kovacevic, N. 80A, 381
Kovacs, P. 80A, 41
Kozak, W. 81A, 165
Kramer, K. J. 81B, 207
Krasin, B. W. 81B, 149
Krenz, W. D. 82A, 59
Kress, L. F. 80B, 507
Krietsch, W. K. G. 81B, 965
Krissansen, G. W. 80B,
Krohn, K. 82B, 123
Kropp, R. K. 81A, 699
Krout, R. T. 82C, 49
Ku, B. S. 80C, 123
Kubicz, A. 81B, 177; 82B, 563
Kubota, Y. 82C, 345
Kudo, S. 80B, 495, 813
Kuhle, K. 81B, 437
Kukor, J. J. 82B, 37
Kulomaa, M. 82B, 123
Kurihara, K. 82A, 153
Kuriyama, H. 82A, 645
Kuriyama, K. 82B, 575
Kurta, A. 82A, 413
Kurył, J. 80B, 309
Kusmierz, J. 81B, 733
Kutz, U. 82B, 455
Kuwabara, H. 80B, 195
Kuyatt, B. L. 81C, 121

Laarveld, B. 81A, 255; 82B, 265
Lacaille, M. 81B, 539
Lachowski, A. 81A, 165
Lackner, R. 82A, 965; 82B, 279
Lacko, A. G. 82B, 529
Lacy, R. C. 81A, 741
Lafargue, F. 81B, 479
Lafon-Cazal, M. 82C, 427

Lafontan, M. 81C, 181
Lahti, E. 80A, 337
Lai, J. C. K. 80C, 285, 291
Lambertsen, G. 80B, 447
Laming, P. R. 82A, 667
Landau, M. 80A, 205; 81A, 551
Landauer, P. 80C, 263
Lang, M. 81C, 293
Larsen, K. 82B, 625
Larson, R. E. 80C, 115
Laskey, J. W. 82A, 101
Laszewicz, W. 82C, 311
Latge, J. P. 82A, 401
Lauber, J. K. 82A, 809
Laude, D. 82C, 109
Laugksch, R. C. 82A, 781
Lauren, D. J. 81A, 217
Laursen, J. S. 81A, 79, 87
Lautt, W. W. 82B, 263
Laval-Martin, D. 81B, 1009
Lavrova, E. A. 80A, 297
Lawrence, J. 81B, 767
Lawrence, J. M. 82A, 559
Lazou, A. 82B, 405
Lea, R. W. 82C, 417, 423
Leake, L. D. 82C, 165
Leatherland, J. F. 80A, 61, 523
LeBlanc, G. A. 82C, 37
Lee, A. G. 81A, 287, 293, 303
Lee, F.-T. 80B, 609
Lee, S. R. 80B, 127
Lee, T.-C. 81C, 81
Legge, K. F. 80A, 363
Leibenguth, F. 82B, 455
Lemay, J. P. 82A, 681
Le Mevel, J. C. 81A, 311; 82A, 29
Lengemann, F. W. 80B, 773
Lenihan, D. J. 81C, 81
Lensky, Y. 81A, 203, 229
Le Quan-Sang, K.-H. 82C, 109
Leray, C. 81A, 695
Leret, M. L. 80C, 411; 81C, 405; 82C, 475
Lerivray, H. 81B, 385
Lerner, J. 81A, 713
Leskovac, V. 80C, 371
Leslie, S. 80B, 99
Lesourd, M. 82A, 401
Lessiter, M. J. 81B, 353
Letelier, M. E. 80C, 195; 81B, 47
Leushner, J. R. A. 81B, 367
Levy, M. J. 81B, 809
Lewan, L. 81B, 499
Lewin, M. J. M. 80B, 165
Lewis, J. H. 82A, 211
Lewis, L. Y. 80A, 441
Lewis, S. E. M. 82B, 849
Leyko, W. 80B, 613
Li, H. W. 81A, 25
Li, W. I. 82C, 269
Li, W. W. 81B, 503
Liaaen-Jensen, S. 82B, 767
Licht, L. E. 81C, 117
Licht, P. 81B, 793
Licis, P. 82C, 363
Lie, Ø. 80B, 447
Lieflander, M. 80C, 263
Lien, R. J. 80A, 433; 82A, 925
Liggins, G. W. 82A, 613
Lind, A. 82C, 435
Lindqvist, O. V. 80A, 337, 515
Lindstrom, R. 81C, 267
Ling, N. 82A, 609; 82C, 231
Linnartz, P. 81A, 905
Linscheer, W. G. 82C, 17
Liu, B. 82A, 281
Livingston, D. J. 81B, 809
Ljungquist, I. 81B, 499
Lobao, H. N. 81C, 461
Lochmiller, R. L. 82A, 49
Lockey, K. H. 80B, 633; 81B, 223, 263
Lomholt, J. P. 81A, 373, 641
Lomsky, M. 81A, 801
Lontie, R. 82B, 179
Loo, S. Y. 81C, 337
Lopez, J. M. 82C, 123
Lopez-Luna, P. 80B, 145
Lopez-Ruiz, M. P. 81B, 1041
Loudon, A. 81A, 815
Loumbourdis, N. S. 82A, 687
Love, R. M. 80B, 713
Lowry, R. R. 80B, 257
Luberda, Z. 80B, 135
Lubet, P. 82B, 425
Luer, C. A. 82C, 255
Lukianenko, V. I. 80A, 297
Lukowiak, K. 80C, 129
Lummis, S. C. R. 80C, 75
Lundholm, C. E. 81A, 787; 82C, 1
Luque, J. 80B, 557
Lykkeboe, G. 81A, 79, 87

McBroom, M. J. 80C, 217; 82C, 279
McCaman, R. E. 81C, 57
McConathy, W. J. 80B, 171
McCullough, C. A. M. 81A, 555
McDonough, P. M. 81A, 209
McGahan, M. C. 82C, 291
McIlvaine, C. M. 80B, 213
McIntosh, M. J. 81C, 227
McIntyre, Y. 82A, 827
McKenzie, H. A. 80B, 287
McKeown, B. A. 80A, 507,

533; 81A, 149
McKercher, S. R. 80A, 115
McKinney, R. B. 82A, 515
McLaughlin, G. L. 82B, 469, 479
McLean, N. V. 82B, 711
McNabb, F. M. A. 81A, 171
McNamara, J. C. 80A, 187
McRee, D. I. 81A, 403
McWade, D. 82A, 621
Maack, C. A. 80B, 77, 89
Maaskant, J. J. 80B, 139; 82A, 239
Mabin, D. 81A, 311; 82A, 29
Macari, M. 80A, 287
Macarulla, J. M. 81B, 1023
MacDonald, D. J. 80A, 533
MacDonald, J. S. 81A, 149
MacDonald, N. L. 81B, 217, 695
Mackness, M. I. 80B, 161; 82B, 675
MacLean, W. P. 82A, 759
MacMillen, R. E. 81A, 687
Maddalena, C. 81A, 555
Madison, K. C. 82B, 229
Maevsky, E. I. 82B, 545
Maffei, C. 80B, 923
Maglad, M. A. 80C, 375; 81C, 223
Maglott, D. R. 80B, 513
Magniez, P. 81A, 415
Magnuson, N. S. 81B, 459, 781
Mahboub, S. 80B, 707
Maher, W. A. 80C, 199; 82C, 433
Mahmoud, I. Y. 82A, 131
Mahnken, C. V. W. 81A, 807
Maidhof, A. 80C, 47
Mainwaring, G. 80A, 85
Makinodan, Y. 80B, 949; 81B, 573, 579, 583
Malde, S. S. 81B, 727
Maldovan, M. 81C, 439
Maloiy, G. M. O. 81A, 335
Manabe, S. 82A, 193, 775
Mancilla, J. 81B, 691
Mandel, I. D. 81B, 823
Mangano, C. 82A, 635
Mannervik, B. 82B, 625
Manning, R. B. 80A, 271
Mao, S. H. 82B, 655
Maoka, T. 80B, 779; 81B, 905
Marangoni, S. 82B, 203
Marcus, F. 82B, 507
Marder, J. 81A, 121, 571
Marek, M. 81A, 341
Maria, S. S. 82B, 549
Marion, K. R. 82A, 515
Marjomaki, V. 82B, 259
Markussen, N. H. 82A, 931
Marmstal, E. 82B, 625
Marques, M. R. F. 82B, 203
Marques, M. S. 82A, 597
Marquis, J. K. 80C, 203
Marrero, M. B. 82C, 69
Marsden, J. E. 82A, 217
Marsh, A. 81B, 767
Marta, K. M. 81B, 459, 781
Martin, A. S. 81B, 119
Martin, B. E. 81A, 1
Martin, J. S. 82B, 37
Martin, L. O. G. 80B, 577
Martin, M. 80B, 557
Martin, M. M. 82B, 37
Martinez, A. M. 81B, 771
Martinez-Conde, E. 80C, 411
Mas, A. 80C, 185
Masaracchia, R. A. 82B, 395
Mason, P. H. 81B, 459, 781
Masoni, A. 81A, 35
Massion, D. D. 80A, 307
Mataix, F. J. 80C, 381
Matelin, D. 82A, 355
Mathieu, M. 82B, 667
Matkovics, B. 81C, 395
Matsubara, T. 81B, 309
Matsuda, J. 82B, 283
Matsumoto, H. 81B, 587
Matsumoto, J. J. 81B, 987; 82C, 345
Matsumura, F. 81C, 97
Matsuno, T. 80B, 779; 81B, 137, 905
Matsuoka, N. 80B, 767
Matsuoka, T. 80C, 331
Matsuura, M. 81C, 61
Matteoli, M. 82C, 353
Matthews, H. M. 81B, 229
Matuska, J. 81A, 341
Mayle, J. E. 81B, 653
Mayzaud, O. 82B, 725
Mazeaud, M. M. 82C, 109
Medeiros, M. G. L. 82B, 223
Mefford, I. N. 80B, 731; 82C, 395
Meheus, L. 81B, 377
Meirelles, N. C. 80A, 53; 82B, 203
Meiri, U. 80A, 57; 82A, 577
Melanson, S. W. 81C, 87
Melck, D. 80C, 237
Meldrum, L. A. 81C, 307
Melgar, M. J. 80B, 149
Mendes, E. G. 80A, 1
Menendez-Arias, L. 82B, 639
Mengebier, W. L. 80B, 405
Menguelle, J. 80C, 401
Menou, J. L. 80B, 113
Mercer, E. I. 80B, 341
Mercer, J. R. 80B, 603
Mercier, A. J. 82C, 337
Mercier, C. 81B, 539

Meredith, P. A. 81C, 227
Merritt, J. 82A, 297
Merritt, R. W. 82B, 37
Messenger, J. B. 82C, 203
Metallov, G. F. 80A, 297
Metcalfe, J. 80A, 369
Meyer, D. L. 81A, 67
Micelli, S. 81C, 45
Michaelidis, B. 82B, 405
Michaelson, D. M. 81C, 439
Michibata, H. 80B, 247
Michnoff, C. A. 82B, 395
Middleton, C. 80B, 755
Midol-Monnet, M. 82C, 75
Mieyr, J. H. 81A, 1
Miguel, B. G. 81B, 771
Miki, W. 80B, 195
Milicua, J. C. G. 81B, 547, 1023
Milkova, Ts. 81B, 491
Miller, B. 80A, 159; 82A, 885
Miller, D. S. 81A, 911
Miller, F. N. 82A, 521
Miller, S. 81B, 235
Miloshev, G. 82B, 759
Mimura, T. 81B, 559
Minale, L. 80B, 113
Minotti, P. G. 81C, 171
Mironova, G. D. 82B, 191
Miura, K. 82B, 721
Miura, Y. 82C, 63
Miyagawa, M. 80A, 565
Miyamoto, T. 81A, 247; 81C, 11
Miyashita, Y. 81C, 1
Miyazaki, E. 81A, 531
Mizuta, K. 81B, 641
Mochizuki, Y. 82C, 249
Mohamed, A. S. 82A, 141
Mohamed, M. I. 82C, 155, 159
Mohr, V. 609; 82B, 599, 607
Mohrenweiser, H. W. 81B, 615
Molony, V. 81C, 367
Momoi, T. 81B, 897
Monge, C. 82A, 847
Montastruc, J.-L. 81C, 181
Montecinos, M. 80B, 45
Montgomery, M. R. 82C, 389
Monticelli, G. 80A, 425
Montmory, C. 81B, 857
Moore, A. 80A, 11; 82A, 395
Moore, K. H. 80C, 355
Moore, M. R. 81C, 227
Mora, M. 82B, 805
Moran, A. 82B, 63
Moreau, R. 81B, 485
Moreira, G. S. 80A, 187
Moreira, P. S. 80A, 187
Morello, A. 81B, 47
Moreton, R. B. 80A, 461
Morgan, J. L. M. 82C, 143
Morgan, M. R. J. 80B, 451
Mori, M. 81B, 473
Mori, N. 82B, 29
Morio, Y. 82C, 243
Morishima, I. 80B, 419; 81B, 453
Morishita, F. 81C, 279
Moriya, M. 81A, 531
Morris, P. K. 80B, 341
Morris, R. J. 82B, 695
Morris, S. 81A, 633
Morrison, P. F. 80A, 61
Mors, R. 80A, 579
Morton, M. L. 80A, 93
Moschini, G. 81C, 469
Mosher, J. A. 82A, 935
Mottram, J. C. 81B, 1037
Moustafa, S. 82C, 155, 159
Moxon, L. N. 80B, 525
Mozhayeva, M. G. 80A, 393
Muchlinski, A. E. 81A, 577
Mukherjee, A. B. 81B, 429
Muller, E. F. 81A, 707
Muller, W. E. G. 80C, 47
Muneoka, Y. 81C, 61
Municio, A. M. 80B, 437
Mura, U. 82A, 141
Murakami, H. 80C, 167
Murakami, N. 81A, 319
Murakami, T. 82A, 455
Muramoto, A. 81A, 195
Murphy, K. 82A, 391
Murray, H. C. 80C, 431
Murty, V. L. N. 81B, 823; 82C, 311
Mustafa, A. I. 81C, 167
Muto, Y. 80B, 495, 813

Nader, H. B. 82B, 223
Nagai, M. 82A, 77
Nagai, Y. 80B, 209
Nagakura, K. 81B, 815
Nagao, S. 82B, 689
Nagaoka, I. 82B, 587, 595
Nahrstedt, A. 82B, 745
Naidu, J. M. 81B, 615
Nakamura, S.-i. 81B, 641
Nakamura, Y. 80A, 17, 437
Nakashima, M. 82A, 583
Nakaza, T. 81B, 641
Namboodiri, M. A. A. 80B, 731
Namihisa, T. 82B, 587, 595
Nardi, G. 80B, 843
Nashiru, T. O. K. 81C, 133
Natochin, Y. V. 80A, 297
Natori, S. 81A, 191
Naude, R. J. 82B, 67, 829
Ndifon, G. T. 82C, 91
Nederbragt, H. 81C, 425
Negami, A. 81B, 641
Neild, T. 81C, 311

Nelson, S. G. 81A, 699; 82A, 373
Nemcsok, J. 82C, 217
Neuman, T. 81B, 211
Nevenzel, J. C. 82B, 293
Neves, A. G. A. 81B, 743
Nevo, E. 80A, 503; 82B, 507
Newgrain, K. 81A, 441
Newton, R. K. 82C, 399
Ng, S. F. 80B, 827
Ng, T. B. 81B, 503, 687; 82C, 463
Niall, H. D. 81B, 509
Nichols, P. D. 80B, 315
Nicotra, A. 81C, 319
Nikai, T. 82B, 29
Nikinmaa, M. 81C, 391
Nikitina, A. A. 80B, 871
Nilsson, I. M. 80A, 43
Nilsson, S. 80C, 105
Nimmo, I. A. 80B, 365; 82B, 91
Nimmo, M. A. 81A, 109
Ninfali, P. 80B, 839
Nishino, C. 81A, 43; 82A, 193, 775
Nishiyama, I. 80B, 247
Nixon, M. 82C, 203
Noble, R. C. 80B, 617
Noda, H. 82A, 583
Noel, J. C. 82A, 681
Nonnotte, G. 81A, 695
Nonnotte, L. 81A, 695
Nonoyama, K. 82B, 317
Norberg, B. 81B, 275, 869
Norman, M. F. 80C, 151
Norris, B. J. 82A, 525
Norris, D. O. 80C, 151
Nosei, C. 81B, 701
Novak, R. J. 81B, 235
Nowak, G. 80A, 183
Nozawa, Y. 80B, 495, 813, 817; 81B, 443, 923; 82B, 689
Nuccitelli, R. 82A, 35
Nunez, L. 82B, 247
Nwoga, J. 81C, 345

Ochiai, Y. 80B, 203
O'Connor, K. J. 81B, 755
Odense, P. 80B, 455
Odierna, G. 80B, 441
Oelofsen, W. 82B, 67, 829
Ogoshi, K. 82A, 805
Ogura, T. 80A, 167
Ohara, S. 82B, 207
Ohayon, H. 82A, 401
Ohnishi, K-I. 80B, 217
Ohnishi, S. T. 81B, 405
Ohno, T. 82A, 153
Ohsawa, N. 82A, 455
Oikari, A. 81C, 391
Oishi, T. 81A, 271, 319
Oka, J. 81B, 159
Okada, Y. 81A, 157, 247
O'Kelly, J. C. 80A, 209
Okereke, S. E. 81C, 241
Olagbemiro, T. O. 80B, 235
Oliveira, M. M. 82B, 173
Olmo, E. 80B, 441
Olorunsogo, O. O. 82B, 117
Olsen, Y. 82B, 767
Olson, C. B. 81B, 1045
Ono, J. K. 81C, 57
Onyschuk, P. 82A, 827
Ooi, C. S. 82B, 275
Ookubo, M. 81B, 137
Orellano, E. G. 80B, 563
Øritsland, N. A. 82A, 931
Orlacchio, A. 80B, 923
Orson, N. V. 80A, 247
Osanai, M. 82B, 569
Oshima, N. 81C, 1, 253
Osman, A. M. 82A, 141
Osmanovic, S. 82A, 763
Osmulski, P. A. 80B, 613
Osnes, K. Kr. 82B, 599, 607
Ostlund, C. 81B, 787
Ota, M. 82B, 707
Otero, M. P. F. 81C, 401
Otsuka, H. 82C, 345
Ottolenghi, C. 80A, 135
Ouazana, R. 80B, 481
Oudejans, R. C. H. M. 80A, 141; 81B, 959
Outch, K. H. 81A, 545
Ovadia, M. 80A, 373
Ovejero, S. 82A, 827
Overnell, J. 80C, 9, 257
Owais, W. M. 81B, 251
Oyarce, A. M. 82B, 63
Ozer, I. 81C, 433
Ozols, A. 80A, 343

Paciotti, G. F. 80C, 325
Pagliarani, A. 80B, 23; 81A, 127
Paiva, V. M. P. 82B, 223
Palma, F. 80B, 839
Palomeque, J. 82A, 597
Palou, A. 82A, 289; 82B, 143
Palumbo, A. 80B, 843
Paparo, A. A. 81A, 481, 647
Papin, C. 80C, 401
Parada, I. 81B, 393
Paredes, S. R. 82B, 751
Park, Y. B. 82B, 529
Parker, D. B. 80A, 507; 81A, 149
Parker, H. T. 82A, 367
Parodi, A. J. 81B, 803
Parsons, P. A. 80B, 525
Partali, V. 82B, 767
Pascal, G. 82B, 581
Pasche, A. J. 82A, 931
Pass, M. A. 82C, 457

Patana, R. 81B, 165
Patino, R. 82A, 531
Pattanakitsakul, S-N. 80B, 583
Pattee, O. H. 80C, 431
Pettit, M. J. 82A, 553
Paul, J. 80C, 277
Paulsen, R. 81B, 819
Paynter, K. T. 82B, 129
Peakall, D. B. 81A, 911
Pearce, J. 81B, 59
Peard, T. 82B, 675
Pearson, A. G. M. 81B, 373
Pearson, D. J. 81B, 727
Pearson, G. D. 81B, 81
Pellegrino, M. 82C, 353
Peller, D. 82B, 283
Peluffo, R. O. 82B, 187
Penczak, T. 82A, 125
Penefsky, Z. J. 80A, 399
Percy, J. 82A, 117
Pereira, S. D. 80B, 895
Pereyra, M. E. 80A, 93
Perez, C. 82C, 451
Perez, J. E. 80B, 641
Perez, M. L. 81B, 1067
Perez, M. L. P. 80B, 623; 82B, 841
Perez-Gonzalez, M. N. 80B, 347
Perez-Olvera, O. 82A, 787
Perez-Suarez, G. 80B, 145
Perlau, R. 82A, 827
Pero, R. W. 81B, 787
Perona, R. 81B, 993
Perramon, A. 80A, 225
Perry, M. M. 82B, 321
Perry, S. F. 81A, 49
Perryman, L. E. 81B, 459, 781
Persson, G. 80A, 43
Peterson, K. S. 81A, 885
Petrovic, V. M. 80A, 477
Pettersson, A-S. 81C, 195
Pezzementi, L. 81C, 87
Pezzementi, M. L. 81C, 87
Phelan, M. A. 81B, 661
Phelps, D. S. 82B, 441
Phillips, A. 81A, 847
Phillips, J. G. 81C, 387
Piacentini, M. P. 80B, 839
Piatti, E. 80B, 839
Piccialli, V. 81B, 111, 115
Piccinni, E. 82C, 29
Piccoli, R. 80C, 237
Piechocki, D. 80B, 381
Piek, T. 82C, 435
Pierce, S. K. 82A, 367
Pierson, K. B. 80C, 299; 81C, 71
Pieterse, J. J. 82A, 19, 23
Pietra, F. 80B, 277; 81B, 479
Piironen, J. 82A, 797
Pilc, L. 81B, 493
Pilo, B. 80A, 103
Pimley, R. W. 81C, 297
Pinchasi, I. 81C, 439
Pinto, O. 80A, 325
Pinto, R. M. 81B, 837
Piperova, S. 81B, 59
Plack, P. A. 80B, 755
Poe, W. E. 80B, 385
Pohl, H. 81A, 613
Polanco, G. E. 81B, 653
Pollero, R. J. 82A, 339
Pollitt, S. 82C, 457
Polzonetti-Magni, A. 82A, 855
Pomar, A. Ma. 82A, 329
Pons, A. 82A, 289; 82B, 143
Pons, G. 80B, 551
Popov, S. 81B, 491
Portet, R. 81B, 797
Posner, I. 80B, 171
Pospisil, J. 82A, 495
Potts, W. T. W. 82A, 705, 711, 719
Pough, F. H. 82A, 217
Poupa, O. 81A, 801
Powell, J. F. 80A, 507
Powers, E. A. 81A, 1
Preaux, G. 82B, 179
Preito, J. C. 82C, 479
Prezioso, G. 80B, 1
Prieto, J. C. 81B, 1041
Principato, G. B. 80B, 801, 923
Prinsloo, P. W. 82A, 867
Pronzato, R. 81B, 111
Prota, G. 80B, 843
Prus, E. 80B, 685
Publicover, S. J. 82A, 7
Punzo, F. 81B, 761
Purzycka-Preis, J. 80B, 685
Pusset, J. 80B, 113
Putzer, V. 82A, 965
Puviani, A. C. 80A, 135

Quinonez, M. 81A, 619
Quintana, E. G. 81C, 461
Quiroga, M. 81B, 535

Radi, A. A. R. 81C, 395
Radke, W. J. 82A, 285
Rael, E. D. 81B, 319
Raffin, J. P. 80B, 685
Raheja, K. L. 82C, 17
Rahim, A. G. 81C, 131
Rahman, T. A. 82C, 155, 159
Rainbow, P. S. 81C, 303
Rajcic, O. 80A, 477
Rajotte, R. V. 82A, 827
Ramos-Martinez, J. I. 80B, 355, 917
Randazzo, V. 82A, 635
Rangachari, P. K. 82A, 621
Rankin, J. C. 81C, 411

Rao, G. N. 80B, 61
Rao, K. R. 81A, 1
Rappaport, S. 81B, 705
Rapport, E. W. 81B, 749
Rasbold, K. 81B, 819
Rascon, A. 82B, 375
Rashatwar, S. 81C, 97
Ratanaphan, A. 80B, 583
Rebolledo, E. 81C, 401
Reche, A. 80C, 381
Redding, J. M. 82A, 531
Redouane, K. 81C, 451
Rees, A. 81C, 387; 82A, 285
Reglero, A. 80B, 629
Regnault, M. 82B, 217
Rehbinder, C. 82A, 675
Reid, K. H. 82A, 701
Reijonen, H. 82A, 97
Reinbothe, H. 82B, 787
Reinert, R. E. 80C, 135; 81C, 125
Reiter, R. J. 80A, 575
Reitze, M. 82B, 337
Rendell, M. 81B, 819
Renecker, L. A. 82A, 161
Repetto, Y. 81B, 47
Retnakaran, A. 82A, 117
Reynoso, T. 81A, 491
Rial, R. V. 80A, 481; 82A, 329
Riano, J. L. A. 82B, 197
Ribeiro, L. P. 81B, 939
Riby, J. 82B, 821
Riccio, R. 80B, 113
Rice, G. E. 81A, 769
Rice, M. A. 81A, 899
Richard, C. 80B, 707
Riddle, W. A. 80A, 313
Riehm, J. P. 81A, 551
Rigor, B. M. 82A, 701
Rimoldi, O. J. 82B, 187
Ringer, R. K. 81A, 921
Rintamaki, H. 82A, 97
Risley, J. M. 82B, 855
Ristori, M.-T. 82A, 221
Rittenhouse, J. 82B, 507
Riviere, J. L. 82C, 439
Robert, J. C. 80B, 165
Robertova, J. 81A, 341
Roberts, B. 80B, 51
Robertson, N. P. 82B, 299
Robin, E. D. 81A, 603
Robin, Y. 80B, 517
Robins, R. J. 80B, 831
Robinson, J. L. 81B, 781
Robinson, T. F. 80A, 399
Robles, A. 81B, 771
Rochu, D. 81B, 857
Rodriguez, R. 82B, 639
Rogers, P. A. 80B, 279
Rogie, A. 81B, 285
Roitman, I. 80B, 537
Rombough, P. J. 82C, 115
Romsos, D. R. 80A, 419
Ronai, A. 82B, 347, 357
Ronald, K. 82A, 931
Ronis, M. J. J. 82C, 445
Rooney, C. H. T. 81B, 711
Rosenblum, P. M. 82B, 659
Rosenquist, G. L. 82C, 143
Rosi, G. 80B, 801
Rossetti, J. E. 80A, 495
Rossi, F. 80B, 843
Roth, G. S. 81C, 121
Rothwell, N. 81A, 815
Rothwell, N. J. 81A, 99, 683; 82A, 745
Roubik, D. W. 82B, 137
Roucache, J. 82A, 401
Rout, U. K. 81B, 647
Rovirosa, J. 81B, 119
Rowley, A. F. 80A, 85
Roy, A. B. 82B, 333
Ruano, A. R. 81B, 953; 82B, 197
Rubio, M. C. 82C, 451
Rudakova, Y. Ya. 81B, 677
Rudel, L. L. 81B, 87
Ruenwongsa, P. 80B, 583
Ruiz, J. 80B, 45
Ruiz-Amil, M. 80B, 361, 623; 81B, 953, 1067; 81C, 375
Russo, A. K. 82A, 859
Rust, M. K. 80A, 377
Rutishauser, S. C. B. 82A, 317
Ryan, K. P. 82C, 203
Ryan, M. 80B, 647
Ryder, L. 82A, 885
Ryder, T. 82A, 885
Rylander, M. K. 80B, 641

Sacchi, V. F. 80A, 425
Saether, O. 81B, 609
Saglio, P. 82A, 67
Saito, A. 82B, 51
Saito, T. 80A, 415
Sakaguchi, B. 82B, 51
Sakai, Y. 80A, 565
Sakaizumi, M. 80B, 499
Sakemi, S. 82B, 107
Sakudo, F. 82A, 361
Sakurai, S. 81B, 453
Salanki, J. 80A, 381, 539
Salbi, M. N. A. 80A, 5
Salibian, A. 81C, 171
Salminen, A. 81A, 929; 82B, 259
Salomao, L. C. 81A, 581, 895
Samueloff, S. 81A, 103, 571
Sanchez, E. 80C, 195; 81B, 691
Sanchez, J. L. 80B, 577
Sander, F. 80A, 25
Santos, M. C. F. 81A, 567,

581, 895
Santos, M. J. H. 80B, 623; 81B, 953; 82B, 197, 841
Santos-Pinto, F. N. 82A, 859
Sargent, J. R. 81B, 193; 82B, 79, 781
Sasaguri, T. 82A, 645
Sasaki, N. 80B, 817; 81B, 443, 923
Satake, M. 80B, 195
Satake, N. 82C, 129
Sato, M. 80B, 5, 11, 223, 227
Sato, T. 81A, 247
Sattelle, D. B. 80C, 75; 82C, 349
Satti, A. M. 81C, 167
Saunderson, C. L. 80B, 99
Sawada, H. 82B, 269
Sawyer, T. K. 81A, 1
Scanes, C. G. 81A, 847; 82C, 137
Schabtach, E. 80B, 647
Schaffer, S. W. 82A, 939
Schalinske, K. L. 81B, 393
Scharloo, W. 82B, 863
Schiff, H. 80A, 271
Schindler, H. 80A, 325
Schlaghecke, R. 82A, 429
Schlenker, E. H. 82A, 293
Schmelas, A. 80C, 85
Schmidt, J. O. 82A, 499
Schmidt, J. W. 82A, 601
Schnell, S. 81B, 1001
Schoephoerster, R. T. 82B, 229
Schoknecht, P. A. 81A, 589
Schoonbee, H. J. 82A, 19, 23, 549
Schoonen, W. G. E. J. 82B, 863
Schraer, H. 81A, 653; 82A, 13
Schreck, C. B. 82A, 531
Schreiber, R. W. 82A, 837
Schropp, R. E. I. 81A, 659
Schulman, N. 82B, 447
Schulz, R. 82A, 429
Schumacher, K. G. 81A, 185
Schurr, A. 80C, 1; 82A, 701
Schwantes, A. R. 80B, 737
Schwantes, M. L. B. 80B, 737
Sciurba, M. 80B, 67
Scott, E. M. 82B, 511
Scott, J. 80A, 123
Scott, J. A. 82C, 43
Scott, L. 80C, 295
Seaborn, G. T. 80B, 15
Seager, S. W. J. 82A, 49
Sebert, Ph. 82C, 207
Sechelski, J. B. 82B, 73
Seed, J. R. 82B, 73
Seibert, H. 80B, 677; 81B, 877
Seidl, D. S. 82B, 375
Seldes, A. M. 80B, 337; 81B, 119
Sellos, D. 80B, 119
Semich, R. 80B, 805
Senatori, O. 81C, 319
Sequeros, E. 81A, 225
Serrano, M. A. 80B, 629
Sevigny, J.-M. 80B, 455
Shabana, M. B. 81C, 139, 145
Shackley, S. E. 81C, 29
Shaddad, S. A. I. 80C, 375; 81C, 223
Shakhmatova, E. I. 80A, 297
Sham, J. S. K. 81C, 445
Shand, J. H. 80B, 617
Shaner, S. W. 82C, 273
Shannon, M. F. 81B, 683
Sharpe, T. 81A, 469
Sharyshev, A. A. 82B, 191
Shaw, R. N. 82B, 153
Shearman, D. J. C. 81A, 325
Shelkovnikov, S. A. 80C, 385, 395
Shepherd, D. 82C, 315
Sheridan, M. A. 80B, 671; 81B, 281
Sheshukova, T. 80A, 343
Shetty, J. 82B, 621
Shevchenko, N. M. 81B, 677
Shibata, S. 82C, 129
Shibuya, T. 80C, 361; 81A, 329
Shigeura, H. T. 80B, 935
Shima, A. 82A, 815
Shimada, Y. 80A, 177; 82A, 815
Shimeno, S. 80B, 195
Shint, D. C. 81B, 819
Shkolnik, A. 80A, 373
Shoda, Y. 81B, 473
Shomoto, K. 81B, 301
Shostak, S. 80A, 553
Shrago, E. 81B, 393
Shtark, M. B. 80B, 927
Shug, A. L. 82B, 525
Shurben, D. 82C, 55
Sica, D. 81B, 111, 115
Siegmund, B. 82B, 337
Siigur, E. 81B, 211
Siigur, J. 81B, 211
Sikorowski, P. P. 81B, 1073
Silanikove, N. 80A, 449
Sillau, A. H. 82A, 471
Sillero, A. 81B, 837
Sillero, M. A. G. 81B, 837
Silove, M. 81B, 505
Silva, C. B. E. 81B, 969
Silva, R. 82B, 173
Silva, S. V. P. S. 80B, 603
Simard, C. 81B, 539

Simmons, M. A. 82A, 373
Simon, E. 80B, 573
Simonetta, M. P. 80A, 425
Simpson, B. K. 80B, 475
Simpson, C. M. F. 82B, 781
Singh, S. V. 82B, 17
Sisak, M. M. 80A, 25
Skadhauge, E. 81A, 769
Skarstein, L. 82A, 201
Skau, K. A. 80C, 207
Skinner, E. R. 81B, 285
Skorkowski, E. F. 80A, 257; 80B, 901
Slebodzinski, A. B. 80A, 559
Sletten, K. 82B, 211
Slomiany, A. 81B, 823; 82C, 311
Slomiany, B. L. 81B, 823; 82C, 311
Smit, G. L. 82A, 19, 23
Smith, A. C. 80B, 377, 719
Smith, B. K. 81A, 445
Smith, D. S. 81A, 15
Smith, G. L. 80B, 713
Smith, G. M. 81C, 53
Smith, J. A. 82A, 781
Snoswell, A. M. 80B, 489
Snow, D. H. 81A, 109
So, Y. P. 81B, 63
Soderhall, K. 81B, 833
Soeda, H. 82A, 361
Sohal, R. S. 82C, 399
Solbe, J. F. del G. 82C, 55
Solomon, F. J. 80C, 355
Solomonov, N. G. 82B, 545
Somasundaram, B. 81C, 29
Sonstegard, R. A. 80A, 61
Soodeen, C. J. 80B, 521
Sorensen, A. L. 80A, 399
Sorensen, K. 80C, 263
Soumarmon, A. 80B, 165
Soylemez, Z. 81C, 433
Spaargaren, D. H. 80A, 579
Spagnulo, A. 80C, 237
Spalding, C. M. 82B, 91
Speckmann, E.-J. 80C, 15, 25, 37
Speirs, R. D. 81B, 207
Spellerberg, I. F. 81A, 939
Spero, J. A. 82A, 211
Spiers, D. E. 81A, 921
Spiridonov, N. A. 81A, 853
Srebreva, L. 82B, 759
S.-Rozsa, K. 80A, 381; 82C, 147
Staddon, B. W. 80B, 235
Stafford, K. A. 81C, 297
Stanic, V. 80A, 107
Stanley-Samuelson, D. W. 81B, 749
Stark, J. R. 81B, 217, 695
Stathakos, D. 80B, 175
Stefano, F. J. E. 82C, 451
Steffensen, J. F. 81A, 373
Steiner, W. W. M. 81B, 295
Stelmasiak, T. 81A, 545; 82A, 323
Stephan, G. 81B, 591
Stephen, P. M. 81B, 819
Stephens, G. C. 81A, 899
Stephens, P. J. 82A, 591
Steven, J. 82B, 497
Stevens, E. V. J. 81B, 1
Stewart, G. A. 81B, 915
Stewart, M. E. 80B, 431
Stipanuk, M. H. 81B, 565; 82B, 233
Stock, M. 81A, 815
Stock, M. J. 82A, 745
Stock, M. K. 80A, 369; 81A, 99, 683
Stoilov, I. 81B, 491
Stone, H. 80C, 9
Storey, K. B. 81B, 777
Stralfors, P. 80B, 609
Strambi, A. 82A, 225
Strambi, C. 82A, 225
Stratil, A. 80B, 909
Streicher, E. 82B, 67
Strieleman, P.J. 81B, 393
Strzezek, J. 81B, 519
Stupfel, M. 80A, 225
Stynen, D. 81B, 171
Suarez, M. 80A, 49
Sudo, M. 80C, 245
Suematsu, E. 82A, 645
Sugden, D. 80B, 731
Sugi, H. 81A, 397; 81B, 559
Sugihara, H. 82B, 29
Sugimoto, M. 81C, 253
Sugimoto, Y. 82B, 51
Suh, Y. H. 80C, 245
Sukumar, R. 81C, 351
Sulakhe, S. J. 82B, 263
Sullivan, C. V. 81A, 807
Sunaga, H. 82C, 249
Sunami, Y. 80C, 245
Sunila, I. 81C, 267
Suter, C. 80C, 221
Sutoh, K. 80B, 209
Sutter, B. 81A, 277
Suttle, D. P. 81B, 781
Suzuki, K. 80C, 141
Suzuki, K. T. 82C, 249
Suzuki, T. 80B, 5, 11; 81A, 191
Svelto, M. 80A, 329
Sviridova, T. A. 81A, 853
Swayne, D. E. 82B, 647
Sweeny, P. R. 81B, 149
Swick, R. W. 81B, 393
Swierczynski, J. 80B, 901
Szafranek, J. 81B, 733
Szajani, B. 80B, 847
Szubartowska, E. 81C, 209
Szumska, D. 81A, 511; 82A, 167
Szylarska-Gozdz, E. 82A,

661

Tabara, M. 82B, 763
Taboada, C. 80A, 49
Taboada, M. C. 81C, 401
Tachibana, H. 81B, 815
Taeusch, H. W. Jr. 82B, 441
Takaku, F. 82A, 455
Takama, K. 80B, 713
Takane, T. 80B, 195
Takano, K. 81B, 309
Takeda, M. 80B, 195
Takei, N. 81A, 397
Takeno, K. 82C, 243
Takeuchi, H. 80C, 123, 331; 81C, 109
Talbot, C. 81C, 259
Talesa, V. 80B, 801
Tamaoki, B-i. 81B, 55
Tamarkin, L. 80B, 731
Tamiya, T. 82C, 345
Tanaka, H. 80B, 223, 227
Tanaka, K. 80A, 415; 81B, 573, 579
Taniguchi, N. 81B, 587
Tara, A. 81B, 211
Tarasantchi, J. 82A, 859
Tata, J. R. 80B, 77, 89; 82B, 497
Tate, W. P. 80B, 883
Tatrai, I. 82A, 125
Tauler, A. 80B, 551
Taves, C. J. 80B, 697
Taylor, A. C. 81A, 633
Taylor, C. W. 82A, 249
Taylor, E. 82B, 133
Taylor, E. W. 80A, 99
Taylor, P. M. 81A, 325
Tazawa, H. 81A, 641
Teller, J. K. 81B, 493
Temma, K. 82C, 403
Tenenhouse, H. S. 81A, 367
Tentori, E. 82B, 695
Teo, L. H. 82A, 871
Terwilliger, N. B. 80B, 647; 81B, 255
Terwilliger, R. C. 80B, 647; 81B, 255
Thabrew, M. I. 81C, 133
Thari, A. 81A, 277
Thaxton, J. P. 81A, 403
Thebault, H. 82A, 233
Theocharis, D. A. 81B, 933
Thierry, H. 80A, 225
Thomas, D. G. 82C, 55
Thomas, J. D. 82C, 91
Thomas, V. G. 81A, 181
Thomou, H. 80B, 175
Thompson, D. B. 82B, 55
Thompson, M. J. 82B, 99
Thompson, S. N. 81B, 21
Thomson, A. B. R. 82A, 83, 819, 827
Thomson, R. H. 80B, 755
Thorgaard, G. H. 81B, 81
Thorig, G. E. W. 82B, 863
Thurberg, F. P. 80A, 333
Tidball, J. G. 81B, 827
Tidmarsh, M-L. 80B, 599
Tillinghast, E. K. 81B, 1053
Tilzey, J. F. 81A, 821
Tinsley, D. 80B, 913
Tintemann, H. 82B, 787
Tjoa, S. S. 82A, 505
Tojo, H. 80B, 425
Tokumitsu, Y. 82A, 377
Tokura, H. 81A, 271
Tomasek, V. 80B, 909
Tome, M. E. 81A, 171
Tonosaki, K. 80C, 361; 81A, 7, 329
Toride, M. 81A, 397
Torres, A. 80C, 91
Torres, A. M. R. 80B, 355, 917
Torres, J. J. 82A, 837
Torska, J. 81B, 519
Tort, L. 81A, 879; 81C, 159
Touitou, Y. 82A, 753
Toulmond, A. 81A, 259
Townsel, J. G. 81C, 351
Toy, P. L. 82C, 399
Toyohara, H. 80B, 949; 81B, 573, 579, 583
Trainer, D. G. 82B, 679
Trautwein, S. N. 80A, 199
Tremblay, R. R. 80B, 279; 82A, 681
Triconnet, M. 81B, 797
Trigari, G. 80B, 23; 81A, 127
Trivic, S. 80C, 371
Trotman, C. N. A. 80B, 883
Trucco, R. E. 81B, 535
Truchot, J. P. 80A, 69; 81A, 259
Trueman, E. R. 81A, 857
Tsanev, R. 82B, 759
Tse, S. Y. H. 81C, 175
Tsegenidis, T. 80B, 761
Tseng, M. T. 82A, 701
Tshuchimoto, M. 82A, 377
Tsiganos, C. P. 80B, 761; 81B, 933
Tsin, A. T. C. 81B, 415
Tsuchiya, T. 81A, 397; 81B, 397; 82C, 345
Tsukuda, H. 82A, 281, 805
Tsutou, A. 81B, 641
Tu, A. T. 82C, 21
Tucker, D. 81A, 7
Tucker, T. J. 80A, 173
Tullett, S. G. 81A, 137, 377; 82A, 735
Tume, R. K. 80B, 127

Tuohimaa, P. 82B, 123
Tur, J. A. 80A, 481; 82A, 329
Turrentine, M. A. 82B, 647
Tyler, M. J. 81A, 325
Tyrer, N. M. 82C, 315

Ueda, S. 82C, 129
Ugolev, A. M. 80B, 871
Ui, M. 82A, 377
Ukoli, F. M. A. 82C, 91
Ultsch, G. R. 81A, 607
Umebachi, Y. 82B, 763
Underwood, H. 80A, 411
Ungell, A-L. 81C, 25
Upshar, J. K. 81B, 901
Urban, J. F. Jr. 82C, 331
Ureta, T. 82B, 247
Usherwood, P. N. R. 80C, 53, 221, 231
Usui, K. 81A, 43
Usuki, I. 80A, 167
Uva, B. M. 81A, 283

Vahala, J. 82A, 495
Vailas, A. C. 82B, 283
Val, A. L. 80B, 737
Valente, D. 80A, 1
Valentine, J. L. 81B, 819
Valkner, K. 80A, 123
Vallarino, M. 81A, 283
Vallejo, C. G. 81B, 993; 82B, 731
Vallejos, R. H. 80B, 563
Vallieres, J. 81B, 539
Vallot, A. 82A, 693
van den Thirllart, G. 80B, 299
van der Lugt, H. C. 81B, 889
van der Plas, J. 82A, 459
van der Roest, M. 82A, 459
van der Wilt, G. J. 82A, 459
Vanecek, J. 80A, 21
van Eeckhaute, L. 82C, 323
Van Etten, R. L. 81B, 177; 82B, 855
Vanfleteren, J. R. 81B, 377
Van Hoven, W. 80A, 291
van Iersel, A. A. 81B, 1027
van Marle, J. 82C, 435
van Mourik, S. 81A, 545; 82A, 323
van Pham, D. 81C, 77
Van Senus, P. 81A, 263
Vansteenwegen, K. 81B, 171
Van Thiel, D. H. 82A, 211
van Vliet, K. J. 82A, 19, 23
Van Vuren, J. H. J. 82A, 19, 23
van Weeren-Kramer, J. 82C, 435
Van Wormhoudt, A. 81B, 447
Varga, F. 80C, 85
Varner, L. W. 82A, 49
Vaucoulon, P. 81A, 347
Vedel, J. P. 80A, 151
Vega, P. 81B, 691
Vehovszky, A. 82A, 345
Veltel, D. 81A, 761
Venables, B. J. 82C, 199
Vendrely, R. 81B, 857
Ventrella, V. 80B, 23; 81A, 127
Verdugo-Diaz, L. 82A, 385
Verheyen, E. 81A, 423
Vermelho, A. B. 80B, 543
Vernon, R. G. 81B, 909; 82B, 133
Vero, M. 80A, 381
Vescia, S. 80C, 237
Vicuna, R. 80B, 485
Vigna, S. R. 82C, 143
Vihko, V. 81A, 929
Vilageliu, Ll. 80C, 189
Villar, E. Del. 80C, 195
Villarroel, A. 81B, 547
Villarroya, F. 82A, 863
Villeneuve, A. 81C, 181
Vincenzi, F. F. 82A, 601
Vinogradov, S. N. 82B, 1
Visconti, M. A. 82C, 501
Viscor, G. 82A, 597
Vislie, T. 82C, 227
Visser, J. G. J. 82A, 549
Voegtlin, D. J. 81B, 295
Vokler, Th. 81B, 73
Volkmann, R. 81C, 189, 195
Volmer, H. 80B, 80B, 805; 81A, 761
von Deimling, O. 80B, 859; 82B, 347, 357
von der Decken, A. 81C, 19
Voogt, P. A. 80A, 141
Vorger, P. 82A, 221, 355, 915
Vornanen, M. 80A, 129
Vowles, D. M. 82C, 417, 423
Vuillaume, M. 80B, 547; 81B, 1009
Vuorela, R. 82B, 699
Vynios, D. H. 80B, 761

Wadano, A. 82B, 721
Wade, A. E. 80C, 135; 81C, 125
Wade, D. N. 82C, 193
Waheed, A. 81B, 177; 82B, 855
Wahlqvist, I. 80C, 269
Waights, V. 81A, 821
Waite, M. 81B, 87
Waiwood, B. A. 82C, 323
Walden, J. 80C, 15, 25, 37
Wali, F. A. 82C, 171
Walker, C. H. 82B, 675;

82C, 445
Walker, D. G. 82B, 815
Walker, K. 82A, 83
Walker, R. J. 81C, 233, 379; 82C, 179
Wallenberg, P. v. 82B, 255
Walsh, J. R. 81B, 509
Walton, M. J. 82B, 87
Walz, D. A. 82B, 715
Wang, A.-C. 82B, 41
Wang, C.-S. 80B, 171
Wangh, L. J. 81B, 467
Ward, P. 80B, 45
Warner, S. 82B, 675
Warr, G. W. 82B, 41
Wasfi, I. A. 80C, 375; 81C, 223
Washio, H. 81C, 11
Wassmer, B. 82B, 347
Wasternack, C. 82B, 787
Watabe, S. 80B, 203
Watanabe, H. 80C, 167
Watanabe, K. 80C, 331
Watanabe, M. 82B, 763
Watanabe, T. 80B, 817; 81B, 443, 923
Watanabe, Y. 82C, 345
Watenpaugh, D. E. 80C, 253
Waters, H. 81B, 373
Watson, T. A. 80A, 507
Watts, S. A. 81B, 143
Weathers, W. W. 81A, 411
Webb, D. J. 82A, 35
Webb, R. A. 80C, 305
Webb, S. M. 80A, 575
Weber, M. 80B, 57
Weber, R. E. 80A, 495; 80B, 747
Weil, M. R. 81A, 585
Weinstein, P. P. 82B, 99
Weiss, S. 80B, 251
Wells, D. W. 80C, 337
Wells, R. M. G. 80A, 495; 81A, 643; 82A, 609; 82C, 231
Welty, J. D. 80C, 217; 82C, 279
Wepierre, J. 82C, 75
Wernham, S. 80C, 129
Wertz, P. W. 81A, 213; 81B, 315; 82B, 229
West, N. H. 82A, 333
Westermark, P. 82B, 211
Westrom, B. R. 82A, 791
Wheeler, J. W. 81B, 555
White, A. 80C, 99
White, E. C. 82A, 879
White, J. R. 81A, 25
White, R. A. 81C, 125
Whittembury, J. 82A, 847
Whittle, M. A. 82B, 535
Wijsman, T. C. M. 81B, 241, 889
Wilde, D. W. 81C, 329
Wilkens, J. L. 82C, 337
Wilkinson, C. F. 80C, 319
Williams, J. 80B, 909
Williams, J. A. 81A, 627; 82A, 447
Williams, J. B. 80A, 349
Wilson, J. X. 81A, 353; 81C, 77; 82A, 333
Wilson, M. R. 82B, 41
Wilson, R. B. 80A, 149
Wilson, R. H. 81A, 109
Wilson, R. P. 80B, 385; 82A, 257
Wilson, R. V. 80B, 463
Winbery, S. 80C, 313
Winkelhake, J. L. 80B, 697
Winkler, A. 81B, 1001
Winlow, W. 82A, 971
Winter, C. E. 82B, 515
Witte, O. W. 80C, 15, 25, 37
Wiygul, G. 81B, 1073
Wolf, S. H. 82A, 837
Woller, M. J. 82A, 131
Wołos, A. 80B, 135, 381
Wong, C. M. 81B, 503, 687
Wong, K. 81B, 53
Wong, T. M. 81C, 175
Wong, V. M. T. 81C, 303
Wood, E. J. 82B, 179
Woodin, T. S. 81A, 507
Woodring, J. P. 82A, 871
Woods, A. E. 82B, 433
Woody, C. J. 80A, 359
Wooldridge, T. 81A, 143
Worden, J. A. 82B, 233
Worrell, G. A. 81A, 243
Woznak, M. 80B, 685
Wright, M. S. 80C, 241

Xue, G-P. 80B, 489

Yagasaki, O. 82C, 243
Yamada, K. 81C, 279
Yamada, L. 82B, 659
Yamada-Horiuchi, K. 81B, 409, 927
Yamagishi, H. 81A, 55
Yamaguchi, K. 80B, 195; 81A, 157
Yamamura, H. 81B, 641
Yamano, T. 80B, 425
Yamanobe, T. 81B, 559
Yamashita, T. 82B, 587, 595
Yanagiya, I. 82C, 243
Yao, K.-M. 80B, 827
Yao, P. 82B, 447
Yarbrough, J. D. 81C, 105
Yassein, O. E. 81C, 223
Yasuura, S. 82B, 587, 595
Yeaman, S. J. 80B, 609
Yeung, H. W. 81B, 503
Yin, C.-M. 82C, 199
Yin, F. Y. 82B, 655
Yngner, T. 81B, 499

Yokoyama, A. 82B, 763
Yonemura, I. 82B, 707
Yonezawa, Y. 82B, 569
Yong, H. S. 82B, 275
Yorio, T. 80C, 109
Yoshii, K. 82A, 153
Yoshinaka, R. 80B, 5, 11, 223, 227
Youson, J. H. 82A, 207
Yousri, R. 82C, 283
Yun, C.-H. 81C, 87

Zagalsky, P. F. 80B, 589, 599
Zahn, R. K. 80C, 47
Zalewska, B. 80A, 215, 599; 82A, 651, 661
Zalutskaya, E. A. 81C, 457
Zama, K. 80B, 303; 82B, 111
Zandee, D. I. 81B, 959
Zanetti, L. 80C, 237
Zatta, P. 81C, 469
Zebe, E. 82B, 337
Zepeda, H. 81B, 319
Zerani, M. 82A, 855
Zernicke, R. F. 82B, 283
Zhukova, N. V. 80B, 867
Zidek, R. 81A, 341
Zlatanova, J. 82B, 759
Zuazaga, C. 82C, 409
Zuim, S. M. F. 80A, 287
Zurovsky, Y. 80A, 373
Zwingelstein, G. 82B, 425
Zychlinski, L. 82C, 389
Zydowo, M. 80B, 685

SUBJECT INDEX

Volumes 80-82A, B and C inclusive, 1985

AA-amyloidosis, 82B, 211
Abramis brama, 82A, 125
Absorption, 80A, 17
Acartia clausi, 82B, 725
Acclimation temperature, 82C, 269
Acebutolol, 82C, 75, 129
Acetate, 81A, 255; 82B, 265
Acetyl CoA carboxylase, 81B, 9
N-acetylhexosamines, 82B, 223
ACh, 80B, 1, 15, 25, 37, 151, 167, 175; 80C, 221, 313; 81C, 351, 439, 461; 82C, 235, 467
N-acetylneuraminic, 81B, 897
N-acetyltransferase, 80B, 731
Achatina fulica, 80B, 123; 80C, 331; 81B, 897; 81C, 109
AChE, 80B, 207; 80C, 263; 81C, 87
Acheta domesticus, 82A, 871
Acid-base, 81A, 121
Acid-base balance, 81A, 259; 82A, 257
Acid-base regulation, 81A, 49
Acid hydrolases, 81B, 993
Acidosis, 81A, 603
Acid phosphatase, 81A, 165; 81B, 177, 229, 815
Acid waters, 81C, 259
Acipenser guldenstadti, 80A, 297
Acrosin inhibitors, 81B, 519
ACTH, 80A, 547; 81A, 99, 545; 82A, 285, 951
Actin, 81B, 143
Actinomycin D, 81C, 401
Action potentials, 81A, 15; 82A, 971
Active transport, 80A, 393
Activity metabolism, 82A, 687
Actomyosin ATPase, 80B, 247
Acylcarnitines, 80A, 123
Acylcarnitine hydrolase, 80C, 355
Acyl-CoA, 80C, 355
Acyrthosiphon pisum, 82A, 401
Adair model, 82A, 915
Adenine nucleotide metabolism, 82B, 385
Adenine nucleotides, 82C, 357
Adenosine, 81A, 431
Adenosine triphosphate (see ATP)
S-adenosyl-L-methionine, 82B, 751
Adenylate cyclase, 80B, 129, 251, 437; 81C, 451
Adenylate energy charge, 81B, 629
ADH, 80A, 329; 81A, 755
Adipocytes, 81B, 687; 82A, 201; 82C, 463
Adipokinetic hormone, 81A, 915
Adipose tissue, 80B, 127, 509; 81B, 797 909; 82B, 133, 153, 581
Adipose tissue lipogenesis, 81B, 667
ADP, 80B, 573
Adrenalectomy, 81A, 353, 487; 82C, 475
Adrenaline, 81A, 821; 82C, 395
[^{3}H] adrenaline, 81C, 25
Adrenal responses, 81A, 171
Adrenergic agonist, 81C, 181
Adrenergic control, 81C, 359; 82C, 137
Adrenergic drugs, 82C, 207
Adrenergic pathways, 80C, 269
Adrenergic stimulation, 81C, 387
Adrenoceptors, 80B, 105; 81C, 1, 445
Adrenocortical secretion, 81C, 387
Aedes aegypti, 81B, 235
Aequorin, 82C, 171
Aerobic capacity, 80A, 487
Aerobic metabolism, 80A, 441
Aeropedellus clavatus, 80A, 307
Aflatoxin B_1, 82C, 255
Agama stellio stellio, 82A, 687
Agarose gel, 80B, 455
Aging, 81A, 935
Aiptasia pallida, 81B, 661

Ajugasterone-C, 80B, 277
ALA-D, 80C, 407
Alanine aminotransferase, 80B, 99; 82A, 167
Alanopine, 82B, 337
Albumin, 82B, 829
Alces alces, 82A, 161
Alcohol, 81B, 635
Alcohol dehydrogenase, 80B, 525; 81B, 1019; 82B, 455
Alcohol dehydrogenase allozyme, 82B, 863
Alcohol metabolism, 81B, 949
Aldehyde dehydrogenases, 81B, 647
Aldo-keto reductase, 81B, 949
Aldolase, 80B, 847
Aldosterone, 81A, 769, 873
Aldrichina grahami, 82B, 721
Alkaline phosphatase, 80B, 801; 81B, 47; 82B, 587, 595
Alkaline phosphatase inhibition, 81B, 535
Alkalinity, 82C, 273
Allantoic blood flow, 81A, 641
Alligator, 82A, 43; 82C, 123
Alligator mississippiensis, 80A, 441; 81A, 217
Allolobophora caliginosa, 80B, 923
Allolobophora molleri, 81A, 225
Allosteric effectors, 80B, 577
Almitrine, 81C, 367
Alpha$_1$-adrenergic responsiveness, 81C, 121
Alpha adrenoceptors, 80C, 211
Alpha-keto aciduria, 82B, 73
Aluminium, 81C, 259; 82C, 199
Ambystoma tigrinum, 80B, 151
Ameiva ameiva, 80B, 157
Amidines, 82C, 43
Amine-containing neurons, 81A, 359
Amines, 80B, 129
Amino acid, 80B, 385; 81A, 525, 899; 82A, 395, 571; 82B, 133, 143
Amino acid chemoreception, 82C, 91
Amino acid neurotransmitters, 80C, 231
D-amino acid oxidase, 80B, 425
Amino acid sequence, 80B, 181; 82B, 211
Amino acid transport, 81A, 387, 427, 713
Amino acid uptake, 80A, 5
1-aminoadamantane, 81C, 39
Aminocyclohexenimines, 80B, 755
Aminoglycoside antibiotics, 81C, 45
Aminotransferase, 82B, 129
Ammonia excretion, 81A, 699
Ammoniogenesis, 82B, 217
AMP deaminase, 80B, 685
Amphibian brain, 82C, 395
Amphotericin B, 80B, 109
Amylase(s), 80B, 57; 81B, 353
α-amylase(s), 82A, 141; 82B, 725
Anaerobic metabolism, 81B, 889; 82A, 965
Anaerobic wintering, 82A, 797
Anas platyrhynchos, 81A, 353; 81C, 287
Anas rubripes, 81C, 287
Androgens, 81A, 847
Anemia, 82A, 221
Anguilla anguilla, 81A, 79, 87
Anguilla japonica, 80B, 5, 11; 81B, 723
Anodonta cygnea, 80B, 299; 82B, 759
Anolis carolinensis, 80A, 303; 81C, 81
Anoxia, 81A, 607; 81B, 241
Anoxic survival, 81A, 251
Antennal flagellum, 80A, 151
Antherea pernyi, 82B, 461
Anthocidaris crassispina, 81A, 397
Anthonomus grandis, 81B, 1073
Anti-albumin sera, 81B, 505
Antibacterial and antifungal activities, 81B, 479
Antibacterial factor, 82C, 345
Antibody structure, 80B, 697
Anticoagulants, 80A, 85; 82A, 863
Anti-galactose lectins, 81B, 171
Antimalarials, 81C, 133
Antioxidant enzyme, 81C, 395
Antispasmodic drugs, 80B, 167
Aortic cannulation, 81A, 879
Aphid, 81B, 295
Apis mellifera, 81A, 203, 229; 81B, 755;

82A, 499
Aplysia californica, 80A, 539; 80B, 129, 251
Aplysia dactylomela, 80C, 337
Aplysia depilans, 80A, 381
Apolipoprotein C-II, 80B, 171
Aptenodytes patagonicus, 81A, 347
Aquaculture, 80A, 205
Arabian brood mares, 81A, 511; 82A, 167
Arachnids, 80A, 313
Arbacia punctulata, 80B, 513
Arenicola marina, 82B, 337
Argentine freshwater fishes, 81A, 473
Arginase, 82B, 307
Arginine, 81B, 761
Arginine phosphate, 81B, 629
Arginine vasotocin, 80A, 75; 80B, 151; 81A, 769
Arousal from hibernation, 80A, 477
Arsenic, 82C, 433
Arsenobetaine, 80B, 199
Artemia, 80B, 755; 81B, 993; 82B, 365, 731
Artemia embryos, 81B, 837
Artemia salina, 81A, 551
Artemocyanin, 80B, 883
Arvicanthis niloticus, 82C, 467
Aryl hydrocarbon hydroxylase, 80C, 319
Arylsulfatases, 82B, 55
Arylsulphatase A, 81A, 165; 82B, 855
Ascaris suum, 80B, 791; 82B, 395; 82C, 331
Ascidians, 80B, 247
L-ascorbic acid, 81C, 131
Aspartate transcarbamylase, 82B, 667
AspAT, 82A, 167
Astaxanthin, 80B, 599, 779
Astaxanthin-lipovitellin, 80B, 589
Asterias, 80A, 141
ATP, 80A, 495; 80B, 547, 573; 81B, 1067, 1073; 82A, 221, 297
ATPase, 80A, 507; 81A, 761, 787; 81B, 551, 629; 82C, 1
mATPase, 81A, 181
ATP production, 81B, 1009
Auditory response, 82A, 667
Avarol, 80B, 47
Avian egg yolk, 82B, 321
Avian erythrocytes, 81B, 1027
Avian salt glands, 81C, 77
Avian shell gland, 82A, 521
Avidin, 82B, 123
Axonal membrane, 80B, 203
Axoplasmic flow, 80A, 247
Aythya marila, 81C, 287
Azasteroid, 82B, 99

Badger, 80A, 159; 82A, 885
Barbus, 80B, 463; 81B, 635; 82B, 413
Barium, 82C, 213
Barnacle muscle fiber, 80C, 421; 81A, 469; 81C, 247, 345
Basal metabolic activities, 82A, 377
Basal metabolic rates, 81A, 707, 741
Behavioral thermoregulation, 82A, 391
Benzodiazepine, 82C, 451
1,4-benzoquinone, 82C, 495
Beta adrenergic receptors, 81C, 279, 411
Beta-endorphin, 82C, 269
Bile, 82C, 479
Bile secretion, 82A, 317
Biliverdin, 81B, 723
Bioaccumulation, 81C, 139
Biogenic amine, 82C, 43
Biomphalaria glabrata, 81B, 743, 1001
Biorhythmicity, 82A, 29
Birds, 81B, 1063; 82B, 555
Bisalbuminemia, 81B, 199
Blaberus discoidalis, 80A, 115
Blaberus giganteus, 80A, 393
Blastocrithidia culicis, 82B, 469, 479
Blatella germanica, 80B, 95; 81C, 97
Blennius pholis, 80A, 85
Blood acid-base status, 81A, 571
Blood chemistry, 81A, 911
Blood coagulation, 80A, 43; 82A, 19, 23

Blood composition, 82A, 837

Blood-gas, 81A, 137

Blood glucose, 80A, 287

Blood lipid, 80A, 579

Blood metabolites, 82A, 609

Blood physiology, 80A, 31

Blood pressure, 81A, 311

Blood sugar, 81A, 627

Blue fox, 82A, 959

Bluegill, 80B, 135; 81C, 125

Bohr effect, 80B, 737; 82A, 915

Bombyx mori, 80A, 425; 81B, 453; 82B, 51, 569, 575

Bone, 82A, 13

Boreogadus saida, 80B, 467

Bos taurus, 81A, 165; 81B, 535

Bovine lysyl oxidase, 81B, 845

Brachionus plicatilis, 81B, 437

Bradycardia, 80A, 99

Brain slice preparation, 82A, 701

Brain slices, 82A, 59

Brain-stem evoked potentials, 81A, 837

Breathing pattern, 81A, 185

Brown adipose tissue, 81A, 99, 393, 683, 815; 82A, 745

Bubble formation, 81A, 209

Bufo arenarum, 81C, 171

Bufo bufo, 81C, 319

Bufo marinus, 81A, 325, 427, 619; 82A, 613; 82C, 291

Bufo viridis, 80A, 75; 81A, 451; 82A, 833

Bulinus rohlfsi, 82C, 91

Bullfrog tongue, 82A, 361

Bullia digitalis, 82A, 425

Bungarotoxin, 80B, 75; 82C, 179

Buoyancy, 81A, 857

Busycon canaliculatum, 81C, 329; 82C, 363

Buteo buteo, 82C, 439

Ca^{2+}-ATPase, 81A, 149

Ca^{2+} cycle, 82B, 545

$(Ca^{2+} + Mg^{2+})$-ATPase, 82B, 117

Ca^{2+} pump ATPase, 82A, 601

Ca^{2+}-stimulated ATPase, 81C, 7

Ca^{2+} transport, 80A, 565

Ca^{2+} uptake, 81A, 787

Cadmium, 80B, 185; 80C, 257, 407; 81C, 139, 145, 155, 159, 267; 82C, 55, 123

Cadmium binding proteins, 80B, 9; 82C, 123

Caenorhabditis briggsae, 82B, 99

Caenorhabditis elegans, 80B, 481; 81B, 377

Caffeine, 82C, 363

Calcitonin, 81A, 593, 653

Calcium, 80A, 129, 503; 80B, 813; 81A, 593; 82A, 385, 543, 645; 82C, 1, 279

Calcium action potentials, 82C, 409

Calcium-binding proteins, 80B, 495; 81B, 409

Calcium-dependent muscle contraction, 82B, 395

Calcium fluxes, 80A, 533

Calcium α-glycerophosphate, 80B, 141

Calcium homeostasis, 81B, 975

Calcium paradox, 81A, 801

Calcium regulation, 82A, 249

Calcium sensitivity, 81C, 97

Calcium uptake, 80B, 805

Callinectes sapidus, 80B, 145; 82A, 189, 267

Calliphora vomitoria, 82A, 225

Calmodulin, 80B, 419, 495, 813; 80C, 241; 81B, 559; 82A, 7, 601

Calmodulin-binding proteins, 82B, 689

Calmodulin inhibitor, 81C, 203

Calorigenic effect, 82A, 373

Calorimetry measurements, 81A, 465

Calpain, 81B, 573, 579, 583

Calpastatins, 81B, 579

Camel, 81B, 251

Camelus dromedarius, 82A, 141

Canary, 81A, 411

Cancer magister, 80A, 257; 81B, 885

Capra ibex nubiana, 82A, 137

Carassius auratus, 82A, 67, 281

Carassius carassius, 80B, 913; 82A, 797

Carbohydrate metabolism, 80B, 725

Carbonic anhydrase, 80A, 507; 81A, 121; 82A, 43
Carboxylesterase, 80B, 859; 82B, 347
Carchesium, 81B, 409, 927
Carcinogenic-mutagenic chemicals, 82C, 489
Carcinus maenas, 80A, 579; 81A, 259, 627; 81C, 469; 82A, 301, 447; 82B, 695; 82C, 227, 337
Cardiac muscle, 80B, 203
Cardiac output, 81A, 103
Cardiac performance, 82C, 483
Cardiomyopathy, 82A, 939
Cardioregulation, 82C, 377
Cardiovascular and organ weight, 82A, 597
Cardiovascular function, 81A, 353
Cardiovascular responses, 81C, 367; 82A, 77
Cardium tuberculatum, 82B, 163
Carnitine, 82B, 525; 82C, 235
Carotenoids, 80B, 779; 81B, 137, 905; 82B, 767
Carotenoprotein, 81B, 547, 1023
Carp, 80A, 437
Carp brain, 80C, 245
Carp intestine, 80A, 17
Carp sperm chromatin, 81B, 543
Cat, 80B, 551
Catabolic adaptations, 82A, 931
Catalase, 80B, 853; 82C, 399
Cataracts, 80B, 61
Catecholamine hormones, 81C, 77
Catecholaminergic neurohumors, 81C, 329
Catecholamines, 81C, 1, 405; 82C, 119, 231
Catfish liver, 80A, 135; 81B, 177
Cathepsin B, 82B, 849
Cathepsin C, 82B, 241
Cation content, 82A, 945
Catostomus macrocheilus, 80A, 507
Caudal regeneration, 81A, 225
Cavia porcellus, 82A, 537
CCK, 82C, 143
Cellobiase, 82B, 327
Cells, 80A, 107
Central neurons, 80A, 381
Centropristis striata, 80B, 213; 82C, 297
Cephalic control, 82A, 935
Cephalopods, 82C, 203
Ceratitis capitata, 80B, 437; 81B, 933
Cerebral and visceral ganglia, 81A, 647
Cerebral ganglia, 80B, 123
Cerebral neurons, 80A, 539
Cerebrospinal fluid, 82C, 109
Cervus rusa timorensis, 81A, 545; 82A, 323
Chaenocephalus aceratus, 80B, 935
Chalcides ocellatus, 81A, 939
Channa punctatus, 81B, 341
Chelatins, 82C, 29
Chelonia mydas, 80B, 15
Chelydra serpentina, 82A, 131
Chemo-attractant, 82B, 447
Chemoreceptively active compounds, 82A, 505
Cherax destructor, 80B, 327
Chick, 80A, 49, 343, 481; 81B, 671
Chick embryo, 80B, 185; 81A, 377; 81B, 975
Chicken, 80A, 369; 80B, 127, 309; 81A, 185, 847; 82A, 329; 82C, 137
Chicken liver, 82B, 805
Chicken rectum, 81C, 307
Chick eye, 81A, 319
Chick heart, 82B, 525
Chinchilla laniger, M. 80A, 215, 599; 82A, 537, 661
Chironomus thummi, 80B, 747
Chironomus thummi thummi, 80B, 613
Chlamydomonas reinhardii, 81A, 491
Chlamys abbidus, 81B, 677
Chlorocruorins, 82B, 1
4-chloroinitrosobenzene, 80B, 161
Chlorphentermine, 82C, 389
Chlorpromazine, 82C, 159
Cholesterol, 82A, 819
[4-^{14}C]cholesterol, 82A, 421
Cholesterol acyltransfer, 80B, 157

Cholinergic mechanism, 82C, 243

Cholinesterase, 81C, 433

Choline uptake, 81C, 351

Cholinolytic, 82C, 179

Cholinomimetic, 82C, 179

Cholinoreceptors, 80C, 385

Chondroitin sulfate, 82B, 223

Chromatin, 81C, 19

Chromatophore movements, 81C, 253

Chromatophores, 81A, 1; 81C, 1, 279

Chrysemys picta, 82A, 891

Chylomicron, 81B, 87, 281

Chymotrypsin, 82A, 791; 82B, 375

Chymotrypsin inhibitor, 81B, 301

Ciliary activity, 81A, 647

Circa-bi-dian rhythmicity, 80A, 469

Circadian locomotor, 81A, 271

Circadian pacemaker, 80A, 21

Circadian respiratory rhythms, 80A, 225

Circadian rhythms, 82A, 1

Circadian system, 81A, 613

Circannual changes, 80A, 43

Circular dichroism, 81B, 927

Citellus citellus, 80A, 477

Citrate synthase, 81B, 767

Clofibrate-fed rabbits, 80C, 355

Clotting rates, 82B, 647

Clupea harengus, 81C, 29

Coagulation, 82A, 211

Coated vesicles, 82A, 809

Cockroach, 82C, 43

Colchicine, 82C, 353

Cold, 82A, 815, 847, 959

Cold-acclimated rats, 82B, 545

Cold acclimation, 81B, 797

Cold adaptation, 81B, 523

Colinus virginianus, 80A, 433; 81A, 921; 82A, 925

Collagen Type I, 81B, 361

Collagen Type IV, 81B, 367

Colon, 82A, 71

Colonic separation mechanism, 82A, 537

Comasterias lurida, 80B, 337

Concholepas concholepas, 82B, 63

Contact chemoreception, 82A, 425

Contractile vacuole, 82A, 787

Contractility, 80A, 129

COOH-terminal amino acid, 82B, 507

Cooling, 81A, 341

Cooling rates, 80A, 281

Copepods, 80B, 455

Copper, 80B, 185; 81B, 535; 81C, 159, 267, 425; 82C, 115, 273

Coronary artery, 82A, 645

Corpus cardiacum, 82A, 627

Corticosterone, 80A, 103; 81A, 217, 545, 769

Cortisol, 80A, 61; 80B, 99; 81A, 511, 545

Corydoras, 80C, 211

Coturnix coturnix, 81A, 171; 81B, 473; 81C, 209; 82A, 101; 82C, 439

Coughing, 80A, 333

Coumarin, 81C, 293

Cows, 82B, 837

Crab respiration, 81A, 567

Crabs, 80B, 401

Crangon crangon, 82B, 217

Crangon franciscorum, 82A, 373

Crangon vulgaris, 82A, 705, 711, 719

Crassostrea virginica, 81A, 481; 82A, 571

Crayfish(s), 80A, 515; 81A, 195, 761; 81C, 471; 82A, 385

Crayfish claw, 82A, 525

C-reactive protein, 80B, 99

Creatine kinase, 80B, 463

Crithidia fasciulata, 81B, 1019

Crithidia oncopelti, 82B, 469, 479

Crocodylus porosus, 81B, 1033

Crocodylus rhombifer, 80B, 209

Crotalus atrox, 82C, 21

Crotalus scutulatus scutulatus, 81B, 319

Crustaceans, 81A, 869

Ctenidial activity, 81A, 481

Culiseta incidens, 80A, 469

Cuticle, 82A, 401

Cuticular hair organs, 82A, 525

Cuticular hydrocarbons, 80B, 633; 81B, 223
Cuticular lipids, 80A, 307; 81B, 263
Cyanide, 80A, 167; 81C, 195
Cyclic AMP, 81A, 653; 81B, 473; 82B, 781; 82C, 69
Cycloheximide, 81C, 401
Cycloleucine, 81A, 495
Cyprinids, 82C, 489
Cyprinus carpio, 80A, 287; 80B, 371, 949; 81B, 573, 583; 82A, 23, 549; 82C, 217, 283, 403
Cysteine, 82B, 639
Cysteine proteinase, 82B, 721
Cysteinesulfinate decarboxylase, 81B, 565; 82B, 233
Cytidine, 81B, 499
Cytochrome c, 81B, 335
Cytochrome c reductase, 80B, 817
Cytochrome P-450, 80B, 569
Cytoplasmic ribosomal proteins, 81B, 683
Cytosine arabinoside, 80B, 821
Cytosol 5'-nucleotidase, 81B, 159
Cytotoxicity, 80A, 163

Damselfish, 81C, 253
Daphnia magna, 80C, 407; 82B, 767; 82C, 37, 273
Dasyuroides byrnei, 81A, 445
DDE, 82C, 1
DDT, 81C, 97, 117; 82C, 243
Decanoic acid, 82A, 693
Decanol, 82A, 819
Defensive secretion, 81B, 555
Dehydration, 80A, 449
Dehydroabietic acid, 81C, 391
Deilephila nerii, 82A, 117
Delayed implantation, 82A, 885
Denervated rat muscles, 81B, 539
$[^{14}C]$2-deoxy-D-glucose, 82B, 25
2'-deoxyribonucleosides, 81B, 479
Dermatophagoides pteronyssinus, 81B, 915
Desaturase, 81B, 923
Desiccation, 81B, 717
Detoxicating enzymes, 80B, 195
Dexamethasone, 80A, 359; 82A, 91
$[^{3}H]$-dexamethasone, 82A, 455
Dextran 70,000, 80A, 373
Diabetes mellitus, 82A, 83
Diabetic rats, 81B, 691
Diadema antillarum, 81A, 15
Diazepam, 80C, 273
Dicentrarchus labrax, 80B, 23, 35, 623; 81A, 127; 81B, 1067; 82A, 233
2,4-dichlorophenoxyacetic, 82C, 495
3,4-didehydroretinol, 81B, 415
Diet, 80B, 15, 257; 82A, 693
Dietary restriction, 82A, 49
Digestive enzymes, 82A, 871; 82B, 37
Digestive lipolytic enzymes, 80B, 447
Dihydrofolate reductase, 80B, 61
Dihydropteridine reductase, 80B, 61
Dihydroxyacetone-phosphate acyltransferase, 80B, 161
Dimethylnitrosamine metabolites, 81C, 19
Diplodon delodontus, 82A, 339
Divalent metal ions, 80C, 285
Diving, 81A, 603
DMNA, 80C, 277
DNA, 81B, 81; 82B, 107
DNA-synthesis, 80B, 175; 81B, 787
Dogs, 82B, 211
Dolicholphosphate, 82B, 157
Dolichol phosphate mannosyltransferase, 80B, 693
DOPA decarboxylase, 81A, 481
Dopamine, 82C, 395, 475
DOPA-oxidase isozymes, 80B, 73
Doubly labeled water technique, 80A, 439
2,3, DPG, 82A, 583
Drosophila, 81B, 683; 82C, 235
Drosophila funebris, 80B, 189
Drosophila hydei, 81B, 949
Drosophila immigrans, 80B, 189
Drosophila melanogaster, 80B, 1, 525; 81B, 949; 81C, 87; 82B, 763, 863
Drought inhibition, 82A, 925

Drug tolerance, 80B, 195
Duck, 81A, 787
Ducklings, 82A, 333
Duck nasal salt glands, 81A, 487
Dugesia japonica, 82A, 805
Duodenal glucose infusion, 81B, 59
Duodenum, 80A, 343
Dysidea avara, 80B, 47

E_2, 80B, 91
Earthworm wash, 82B, 447
EAT cells, 80B, 175
Ecdysteroids, 82A, 225
Ecdysterone, 81B, 771
Echinoderms, 81C, 457
Echinometra lucunter, 80A, 1
Eel, 80B, 51
Egernia cunninghami, 80A, 281
Eggs, 81C, 259
Eggshell gland, 81A, 787
Eggshell porosity, 81A, 137
Egg survival, 80A, 61
Egg weight, 81A, 377
Elasmobranchs, 82A, 635; 82B, 371; 82C, 255
Elastase, 81B, 695; 82A, 791
Electrical activity, 82A, 627
Electroantennogram, 82A, 775
Electrolyte balance, 81A, 217; 82A, 257
Electrolyte transport, 82A, 71
Electromotoneurones, 82A, 59
Electrophoresis chamber, 80A, 453
Electrophoretic resolution, 82B, 643
Electrophorus electricus, 81B, 969; 81C, 461
Electroreceptors, 80A, 191
Elona quimperiana, 80B, 103
Elysia chlorotica, 82A, 367
Endocrine regulations, 80A, 115
Endogenous tidal cycle, 81A, 627
Endo-β-1,6-glucanase, 81B, 677
Endoparasites, 81B, 21
Energetic cost, 81A, 25, 577
Energetics of swimming, 82A, 267
Energy expenditure, 80A, 587; 82A, 161
Energy metabolism, 80A, 349; 82C, 323
Energy requirements, 80A, 355; 82A, 885
Enterocytic brush border, 80B, 871
Environmental challenges, 80A, 225
Enzyme locus, 82B, 413
Enzyme polymorphism, 82B, 275
Enzymes in metabolism, 81B, 1
Ephestia kuhniella, 82B, 455
Epididymal adipocytes, 81B, 97; 82A, 377
Epiphyte material, 80B, 315
Epithelial cells, 82C, 69
Equine transferrin, 80B, 287
Equus caballus, 81B, 459, 781
ERG, 82A, 385
Erinaceus europaeus, 80A, 43; 82A, 791
Erpetoichthys calabaricus, 82A, 553
Erythrocruorin, 80A, 53; 82B, 1, 203
Erythrocyte acid phosphatase, 81B, 615
Erythrocyte membranes, 81B, 131
Erythrocytes, 80A, 149, 163, 369; 80B, 557; 82B, 511
Esterase, 81B, 229, 353; 82B, 675
Esterase 6A, 82B, 357
Ester production, 80B, 235
Estradiol, 80A, 433; 82A, 855
Estradiol-17β, 81B, 275
Etamiphylline, 81C, 367
Ethanol, 80A, 419; 80B, 189; 81C, 171, 337; 82A, 939
Ethylmorphine N-demethylase, 80B, 389
Euglena gracilis, 81B, 803, 1009; 82B, 787; 82C, 29
Eumolpadia violacea, 81A, 415
Euphausia superba, 81B, 609; 82B, 599, 607
Eurychora sp. 81B, 223
Ewes, 80A, 591
Excitatory transmitter in smooth muscle, 81C, 307
Exercise, 80A, 199
Exoskeleton, 80A, 515
External insulation, 82A, 413

Eye lens, 80B, 377, 719
Eye movements, 81A, 67
Eyestalk movements, 81A, 157

$F_{2\alpha}$, 80B, 91
Falco sparverius, 80C, 431
Fasciola hepatica, 81B, 373
Fasting, 82B, 207
Fatty acid, 80B, 15, 257, 299, 671, 713, 791; 81B, 53, 515; 82A, 819; 82B, 153, 699
Fatty acid production, 80A, 291
Fatty acid synthesis, 81B, 97
F1,6-DP, 82B, 507
Fe^{2+}-activated acid phosphatase, 82B, 269
Fecundity, 80A, 61
Feeding, 82A, 67, 125
Feeding diets, 82A, 233
Feeding movements, 81A, 779
Felis domestica, 80B, 603
Fenitrothion, 80B, 145
Ferritin, 80B, 773; 81B, 325, 901
Fertilization, 82A, 35
Fever, 81A, 577
Fibre composition, 81A, 109
Filariasis, 82B, 275
Fishes, 80A, 79; 80B, 641; 81A, 209
Fish embryos, 82A, 815
Fish liver, 82B, 621
Flight activity, 80A, 469
Flight activity in birds, 82A, 597
Flight muscles, 80B, 805
Fluid balance, 80A, 591
Fluid regulation, 81A, 93
Fluphenazine, 81C, 203
FMRFamide, 81C, 61, 175, 379
Food chain studies, 82B, 767
Food ration, 80A, 553
Food transit, 82A, 781
Force velocity, 81A, 531
Forskolin, 80C, 325
Fowl (also see chicken), 80B, 99; 81A, 769, 787, 865; 81C, 387; 82B, 143
Fowl embryos, 81A, 137
Frog embryos, 81C, 117
Frog heart, 81C, 189, 195
Frog liver microsomes, 82C, 63
Frog olfactory cell, 82A, 153
Frog skin, 80A, 329
Frog tadpole, 81B, 603
Frog tongue, 81A, 247
Fructose, 80A, 325
FSH, 82A, 891
β-D-fucosidase, 80B, 149
Fundulus catenatus, 80A, 547
Furazolidone, 81C, 167
Fusinus perplexus, 81B, 905

G6PD, 80B, 217
GABA, 80C, 313; 82C, 315, 451
Gadus morhua, 81A, 593; 82C, 81
Gadus morrhua, 80B, 105, 447, 713; 80C, 269; 81C, 25
Galactose, 82B, 683
β-galactosidase, 81B, 401
Galleria mellonella, 81A, 341, 853
Gallus domesticus, (also see chicken & fowl) 80A, 419; 80B, 91; 81A, 641; 81C, 367; 81A, 285; 82B, 647
Gambusia affinis, 81C, 105
Gametogenesis, 81B, 959
Ganglionic synapses, 80C, 269
Gastric acid secretion, 81A, 325
Gastric emptying, 80A, 173
Gastric mucus gel, 82B, 711
Gastric mucus glycoprotein, 82C, 311
Gastric secretion, 82A, 935
Gastrointestinal tract, 82A, 489
Gastrointestinal transit, 82A, 329
Gastropods, 82A, 105
GDH, 82B, 197, 217
GDP-mannose, 80B, 693
Gecko, 80C, 361
Geese, 80B, 309
Gene expression, 80B, 279, 463
Genetic influences, 81C, 57
Geochelone carbonaria, 82A, 859

Gerardia savaglia, 80B, 277

Gestation, 82A, 885

Gill function, 82A, 543

Gill lipids, 82B, 293

Girella tricuspidata, 82A, 609

Glis glis, 81A, 277

Glossina morsitans, 81C, 297

Glossoscolex paulistus, 80A, 53; 81A, 63; 82B, 203

Glucagon secretion, 81A, 277

Gluconeogenesis, 80B, 603; 81A, 391

Gluconeogenic processes, 80A, 477

Glucose, 80A, 325, 359; 81B, 1073; 82B, 815

Glucose catabolism, 81B, 485

Glucose 1, 6-P_2, 80B, 839; 81B, 737, 981

Glucose-6-phosphatase, 81B, 443

Glucose release, 81B, 877

α- and β-glucosidase, 81B, 401

α-glucosidase, 82A, 681

Glucuronic acid, 82B, 223

L-glutamate, 82C, 259

L-glutamate dehydrogenase, 80B, 1, 563

Glutamic acid, 80B, 65; 81A, 669

Glutamic acid decarboxylase, 81C, 471

γ-Glutamyltransferase, 80B, 941

γ-glutamyltranspeptidase, 82B, 263

Glutathione, 80B, 831, 917; 80C, 401; 82C, 399

Glutathione peroxidase, 80C, 295

Glutathione reductase, 80B, 355

Glutathione S-transferases, 80B, 85, 365; 81B, 251; 82B, 17, 91; 82C, 37, 495

Glycerate-2, 3-P_2, 80B, 551, 557

Glycine, 81A, 669

Glycogen, 80A, 359; 80B, 139; 81B, 877

Glycogen metabolism, 80A, 135; 81B, 641; 82A, 239

Glycogenolysis, 80C, 371

Glycogen reserves, 82A, 797

Glycogen synthase, 82B, 535

Glycogen utilization, 81A, 243; 81B, 1053

Glycolipid components, 80B, 543

Glycolytic enzyme, 81B, 349

Glycolytic metabolism, 81B, 969

Glycopeptide II, 81B, 743

Glycoproteins, 82B, 683

Glycosaminoglycans, 81B, 933; 82B, 223, 299

Glycosidases, 80B, 241, 629

Glycosylated albumin, 81B, 819

Glycosylated hemoglobin, 81B, 819

Glycosylation of proteins, 81B, 803

Glycosyl transferase, 80B, 629

Glyoxalase I, 82B, 625

Goats, 80A, 449; 81A, 539; 81C, 167

Gonadal index, 81A, 117

Gonadectomy, 81C, 405

Gonadtropins, 81A, 847

Gonyaulax polyedra, 81C, 39

Gorgosterol biosynthesis, 81B, 423

Grain beetles, 81B, 207

Grey seal pups, 82A, 931

Grouse, 81A, 181

Growth, 82A, 257

Growth cycle, 81A, 465

GSH, 80B, 213

GSH-peroxidase, 82C, 297

GTP cyclohydrolase, 80B, 61

Guanylate cyclase, 80B, 813

Guinea-pig, 80A, 565; 80B, 85, 431; 81C, 155; 82A, 317, 471

Haematological values, 82A, 495

Haemodynamic effects, 82C, 75

Haemopis sanguisuga, 82A, 763

Haldane method, 82A, 111

Haliclona chilensis, 81B, 119

Halocynthia aurantium, 80C, 395

Hamadryas baboons, 80A, 373

Hamsters, 80C, 217; 82C, 279

Hamster fat cells, 82B, 549

Hatch weight, 82A, 101

HCN, 81C, 341

Heart, 80A, 123; 80B, 67

Heart rate, 82A, 161

Heat, 80A, 281; 82A, 815
Heat exposure, 80A, 287
Heat shock proteins, 81B, 185
Heavy metals, 81C, 287
Heliconiini, 82B, 745
Helium-oxygen, 81A, 445
Helix aspersa, 80B, 795; 81C, 233, 379
Helix pomatia, 80B, 15, 25, 37; 81B, 503; 82A, 345; 82B, 179, 279; 82C, 147
Hematocrit, 81A, 87
Hematology, 80A, 79; 82A, 211
Hemicholinium-3, 82C, 179
Hemilepistus reaumuri, 81B, 717
β_c-hemocyanin, 82B, 179
Hemocyanin, 80A, 69; 81B, 857, 885
Hemocyanin structure, 80B, 647
Hemocytes, 82A, 339
Hemoglobin, 80A, 31, 495; 80B, 145, 613, 737, 747; 81A, 79, 87, 885; 81B, 255; 82A, 583
Hemoglobin heterogeneity, 80B, 641
Hemolymph, 81A, 581; 81B, 889
Hemolymph osmoregulation, 80A, 313
Hemorrhagic stress, 81A, 403
Hemorrhagic toxin *b*, 82C, 21
Hens (see also Fowl, Chicken), 82A, 851
Heparan sulfate, 82B, 223
Hepatic biotransformation, 82C, 439
Hepatic necrosis, 80C, 277
Hepatocytes, 80B, 573, 677; 81B, 505, 877
Hepatopancreas, 80B, 577; 82B, 279, 679
Hepatotoxicity, 80B, 115
Herpetomonas megaseliae, 80B, 537
Herpetomonas samuelpessoai, 82B, 173
Herring, 82B, 699
Herring gulls, 81A, 911
Heterosquilla tricarinata, 81A, 827
Hexokinase A, 82B, 247
Hexokinases, 80C, 285, 291
β-hexosaminidase, 80B, 923
Hexose phosphorylation, 82B, 25
5-HIAA, 80C, 411
Hibernating golden hamsters, 80A, 21
Hibernation, 81A, 459; 82B, 191
Hibernators' brain, 80B, 927
High-density lipoproteins, 82B, 529
Hippocampus, 80B, 927
Hirudo medicinalis, 80B, 923
Histone(s), 80B, 119; 82B, 759
Holothuria glaberrima, 80A, 25
Homarus americanus, 80A, 333; 80B, 599; 81B, 629; 82A, 267
Homarus gammarus, 80B, 589, 599
Homarus vulgaris, 80A, 69
Homeothermic development, 81A, 921
Honeybee, 80B, 451
Hormones, 80B, 99; 81C, 247
Horse, 81B, 787
$^{5}\Delta$3β HSD, 82A, 131
5-HT, 80C, 305, 325, 337, 411, 421; 81C, 233; 82C, 109, 129, 155, 159
^{125}I-human chorionic gonadotropin, 82A, 429
Humidity, 80A, 481
Hybrid protein synthetic systems, 81B, 705
Hydration, 81B, 717
Hydrolytic enzymes, 81B, 437
Hydrostatic pressure, 82C, 207
β-hydroxybutyrate, 81A, 255; 82B, 265
3-hydroxybutyrate dehydrogenase, 82B, 379
7-hydroxylation, 81C, 293
16α-hydroxylation, 81B, 55
Hydroxymethyltransferase, 81B, 701
Hyla chrysoscelis, 82A, 217
Hyla versicolor, 82A, 217
Hymenolepis diminuta, 80C, 305; 81A, 387, 495; 81B, 335; 82B, 487
Hypercapnia, 81A, 571
Hypercapnic rats, 81A, 121
Hyperosmotic volume regulation, 80A, 571
Hyperoxia, 81A, 633
Hypertensive rats, 82C, 75
Hyperthyroidism, 82A, 471; 82C, 17
Hyperthyroid rats, 80A, 575
Hypertonicity, 82A, 577
Hypoglycemia, 80A, 419

Hypohydration, 82A, 577
Hypophysectomy, 80A, 547; 81A, 283
Hypostomus regani, 80B, 737
Hypovolemia, 82A, 577
Hypoxia, 80A, 69, 123; 81A, 633; 82A, 847

Ictalurus melas, 80C, 295
Ictalurus punctatus, 80B, 385
IgM, 80B, 697; 82B, 41
Ileum, 80B, 95
Illex illecebrosus, 82B, 241
Illumination, 81A, 319
IMAO (nialamide), 80C, 381
Immunodeficiency, 81B, 781
Immunoglobulin, 80B, 181
IMP dehydrogenase, 81B, 837
Incubation, 81A, 411
Indolylakylamines, 81C, 457
Inositol-P_5, 80B, 557
Inositol lipid turnover, 82B, 781
Inositol 1,4,5-trisphosphate, 82A, 645
Insect(s), 80B, 257; 80C, 241
Insect brain, 81A, 501
Insect cell lines, 81B, 429
Insect central nervous system, 82C, 243
Insecticides, 81C, 105, 209
Insect microsomes, 82B, 559
Insect neuromuscular junction, 81C, 11
Insect toxins, 82C, 435
Insect visceral muscle, 80B, 65
Insulin, 80A, 135; 81A, 255, 821; 81B, 691; 82A, 827; 82B, 265, 721
Insulin in insects, 81B, 493
Insulin-like material, 81B, 755
Insulin radioimmunoassay, 82A, 863
Insulin receptor, 80A, 41; 81B, 909
Intake of milk, 81A, 441
Interneurons, 81A, 195
Inter-α-trypsin inhibitor, 80B, 507
Intestinal brush border, 82A, 83
Intestinal motility, 80A, 481
Intestinal mucosa, 81B, 59; 82A, 91
Intestinal uptake, 82A, 819
Intestine, 81A, 695
Intracellular chloride, 80A, 461
Intracellular osmotic regulation, 82A, 719
Iodothyronine, 80A, 183
Ionic regulation, 80A, 297
Islet cell, 82A, 827
Isocal, 82A, 819
Isocitrate dehydrogenase, 81B, 953
Isoelectric focusing, 81B, 647
Isoenzymes, 80B, 923
Isoenzyme systems, 80B, 455
Isolated, perfused trout head preparation, 81A, 35
Isoprenaline, 80B, 105
Isopropanol, 80B, 189
Isoproterenol, 81C, 189, 195, 433; 82C, 403

Juvenile hormone, 82A, 117

Katsuwonus pelamis, 81A, 49
Kdr-type, 81C, 97
α-keto acids, 80B, 99
Ketogenic regulation, 81B, 863
α-ketoglutarate dehydrogenase, 80B, 161
Ketones, 81B, 555
Ketone body metabolism, 81B, 245, 671
Kidney, 80B, 425; 82B, 91
Kidney function, 82A, 137
Kidney medulla slices, 80B, 141
Kiwis, 81B, 945
Krill, 81B, 609
K^+ transport, 82B, 191

Lacerta vivipara, 81A, 939
β-lactamase, 80B, 45
D-lactate, 81B, 889
L-lactate, 80A, 69
L-lactate binding, 81B, 885
Lactate NADH oxidoreductase, 82B, 837
Lactation, 80A, 587, 591; 82A, 885
Lactic acid, 82B, 255
Lamb, 80B, 617; 82B, 419
Lamprey, 82C, 119

Lamprey erythrocytes, 81B, 405
Lantadene A, 82C, 457
Lantern muscles, 80A, 1
Lantern retractor muscle, 81A, 397
Lanthanum, 82C, 363
Laurate hydroxylase, 82C, 63
LDH, 81B, 711; 82C, 217
LDH-5, 82B, 95
Lead, 80B, 185; 81C, 227; 82C, 115
Lead ingestion, 80C, 431
Lecithin, 80B, 157
Lecithin:cholesterol acyltransferase, 81B, 531
Lectin, 80B, 795; 81B, 385, 503, 897
Leech Leydig neurone, 82C, 165
Leech neurons, 82C, 353
Leech Retzius nerve cells, 81C, 323
Leiobunum townsendi, 81B, 555
Leiolopisma smithi, 80A, 31
Leiolopisma zelandica (Gray), 80A, 31
Leishmania mexicana mexicana, 81B, 1037; 82B, 773
Leishmania spp. 81B, 701
Lepidochora discoidalis, 80B, 633
Lepidochora eberlanzi, 80B, 633
Leptogorgia virgulata, 81B, 827
Leucine metabolism, 82A, 435
Leucocytes, 80A, 85; 81B, 787
Levator ani muscle, 80B, 279
Light-evoked depolarizations, 80A, 233
Ligia exotica, 81A, 55
Limulus polyphemus, 81B, 503
Linamarin, 82B, 745
Lindane, 80C, 401
Lipase, 80B, 609
Lipid(s), 81B, 43, 73, 235, 609; 82B, 187, 229, 425, 695, 793
Lipid bilayers, 80B, 685
Lipid composition, 80A, 149; 81B, 823
Lipid environment, 80C, 245
Lipid fluidity, 81A, 287
Lipid metabolism, 81B, 771
Lipid transport, 82A, 339
Lipogenesis, 82C, 137
Lipogenic enzyme, 82B, 581
Lipogenic hepatic enzyme, 80B, 41
Lipolysis, 82C, 463
Lipopolysaccharide (LPS), 80B, 537
Lipoproteins, 81B, 285, 915; 82B, 675
Lipoprotein lipase, 80B, 171; 81B, 797
Littorina littorea, 80B, 149
Liver acid phosphatases, 82B, 563
Lizards, 80A, 411; 81A, 597
Locomotion, 80A, 487
Locomotor activity, 82A, 447
Locust, 81A, 761
Locusta migratoria, 81A, 915; 81B, 485; 82A, 627; 82C, 427
Locusta migratoria cinerascens, 80C, 401; 81C, 451
Locust central neurons, 80C, 221, 231
Locust nymphal neurones, 80B, 53
Locust skeletal muscle, 82C, 315
Lotaustralin, 82B, 745
LPS fever, 81A, 165
Luidia clathrata, 81B, 143, 401, 767; 82A, 559
Luidia maculata, 80B, 113
Lumbricus terrestris, 82C, 179
Luminescence, 82C, 171
Lymnaea stagnalis, 80B, 139; 81A, 359; 81B, 241, 889; 81C, 57; 82A, 239, 459; 82B, 535
Lysosomal enzymes, 81A, 929; 82B, 259
Lysosomes, 81B, 603
Lysozymes, 81A, 511; 81B, 509, 1063; 82B, 555, 639

Macaca fascicularis, 82B, 147
Macaca irus, 81B, 55
Macaca mulatta, 81B, 393
Macrobrachium heterochirus, 80A, 187
Macrobrachium lar, 81A, 699
Macrobrachium olfersii, 80A, 187
α_2-Macroglobulin, 81B, 833
Macropetasma africanus, 81A, 143

Macrophage oxidative burst, 80A, 163
Macropipus puber, 81B, 857
Magnesium, 80A, 503; 81A, 507; 81B, 1067; 82A, 753
Magnesium chloride, 82C, 203
Mako shark, 81A, 643
Malarial parasites, 80B, 725
Malic enzyme, 80B, 35, 901; 81B, 939
Malpighian tubules, 80A, 393
Mammary gland, 82B, 265
Mammuthus primigenius DNA, 81B, 1045
Mannosyltransferase, 82B, 157
Mansonia uniformis, 82B, 275
MAO, 80C, 245; 81C, 319; 82C, 389, 417, 423
Marihuana, 80B, 1
Marine invertebrates, 80C, 237
Marmoset, 81A, 683
Marsupial, 81A, 815
Marthasterias glacialis, 80B, 941
Mating flights, 81A, 229
Maze learning, 80C, 273
Mechanical stretch, 81A, 243
Mechanoreception, 80A, 151
Medroxyprogesterone, 80B, 347
Melanophores, 80C, 211; 81C, 1; 82C, 501
Melanotropin, 81A, 1
Melatonin, 80B, 731; 82A, 725
Meleagris gallopavo, 80A, 325
Melittin, 82C, 291
Membrane fluidization, 81C, 39
Membrane permeability, 80B, 109
Membrane potential, 82A, 35
Mercenaria mercenaria, 80C, 325; 81B, 777
Mercuric chloride, 80C, 295
Mercury, 80B, 95; 82C, 115, 227
Meriones unguiculatus, 82A, 951
Mesidothea entomon, 81B, 733
Mesocricetus auratus, 80A, 21
Mesocricetus brandti, 81A, 613
Metabolic cost, 81A, 597
Metabolic integration, 81B, 21
Metabolic pathways, 82B, 217
Metabolic rate, 80A, 587; 81A, 263, 833; 82A, 217
Metabolism, 80A, 187, 325; 81B, 217; 82A, 111, 293
Metalloproteases, 80B, 209, 227
Metallothionein, 80B, 95; 81C, 303; 82C, 249
Met-enkephalin, 81C, 175
Methemoglobin reductase, 82B, 511
Methione, 80B, 489
L-methione, 82A, 233
Methylated amino acids, 82B, 569
Metmyoglobin reductase, 81B, 809
Metyrapone, 81C, 241
Mg^{2+}-ATPase, 81A, 127
Mice, 80B, 85, 127, 161, 521; 80C, 273; 81A, 109, 929; 81B, 647; 82B, 259
Microcirculation, 82A, 521
Micrococcal nuclease, 81C, 19
β_2-microglobulin, 81B, 621
Microsomes, 80A, 565
Microtus montanus, 82B, 73
Milk composition, 81A, 589
Mites, 81B, 353
Mitochondria, 80B, 155, 901; 82B, 287, 545
Mitochondrial respiration, 81B, 777
Mitral cell odor, 80C, 361
Molluscan neurons, 80A, 461; 82A, 971
Molluscs, 81B, 989
Molossus molossus, 80A, 149
Molting, 81A, 143, 889
Monochlorobenzene, 80B, 115
Monoclonal antibodies, 82B, 123
Monocular range-finding, 80A, 271
Monooxygenase, 82C, 255, 445
Monosaccharide uptake, 80A, 369
Morimus funereus, 80A, 107
Morphological transformation, 81B, 815
Mosquito, 80B, 73
Motoneurons, 82C, 259
Motor activity, 80A, 363
Mouse liver, 80B, 859; 81B, 499; 81C, 19

Mouse organs, 82B, 229
Mouse urinary bladder, 82C, 357
Mucus, 82A, 67
Mucus glycoprotein, 82B, 207, 419
Mugil cephalus, 81C, 139, 145
Musca domestica, 82C, 399
Muscarinic cholinoceptors, 80C, 211
Muscarinic regulation, 81C, 439
Muscles, 81A, 929; 82B, 259
Muscle chemoreceptors, 80C, 395
Muscle fibres, 81A, 619
Muscular dystrophy, 81B, 149
Mus musculus, 82B, 347, 357
Mustela putorius, 81A, 589
Mycosporines, 80B, 755
Myelinated axons, 80A, 247
Myoglobin, 81A, 181, 885
Myosin, 82B, 737
Myosin light chains, 80B, 203
Myotis lucifugus, 82A, 413
Mytilus, 81C, 61
Mytilus edulis, 80A, 571; 80B, 299, 355, 361; 80C, 257; 81B, 551, 953, 959; 81C, 267, 375; 82B, 197, 667
Mytilus galloprovincialis, 80B, 577; 81B, 491; 82B, 425
Myriapods, 80A, 313

NaCl, 82A, 361
NADH-cytochrome b_5 reductase, 80B, 165
NADH-ferrihemoglobin, 81B, 1027
NADP-linked dehydrogenase, 81B, 727
Na^+K^+-ATPase, 80A, 103; 82A, 189
$Na^{75}SeO_3$, 81C, 131
Na transport, 81A, 695
Nearctic freshwater turtles, 81A, 607
Necturus maculosus, 80A, 495; 82A, 391
[N]e, D-Phe-α-MSH, 81A, 1
Nematocyst proteins, 81B, 661
Nematode chromosomal proteins, 81B, 377
Neoteny, 80A, 495
Nerve growth factor, 81B, 211, 687
Neurofilament triplet protein peptide, 80B, 707
Neurons, 80C, 231, 331; 81A, 55; 82A, 345, 367, 459
Neurotoxic action, 81C, 227
Neurotoxins, 81C, 219
Neurotransmitter, 81C, 57; 82A, 7; 82C, 81
Nickel, 80B, 185; 81C, 7, 11, 155
Nicotinic acetylcholine receptor, 82C, 349
Nitrate, 80A, 337
Nitrogen assimilation, 81A, 699
Nitrogen metabolism, 80B, 401; 82A, 137
Nitrogenous excretion, 80B, 103
Nitrogen utilization, 82A, 499
p-nitrophenyl phosphatase, 81B, 587
Non dehydrogenases, 81B, 429
Nonessential amino acids, 81A, 669
Non-histone proteins, 81B, 543
Noradrenaline, 82C, 475
[^{3}H]noradrenaline, 81C, 25
Norepinephrine, 82C, 155, 395
Normoxia, 81A, 607
NPS pool, 82A, 301
5'-nucleotidase, 80B, 67; 82B, 549
Nutritional chemistry, 80A, 205; 81A, 551
Nyctereutes procyonoides, 80B, 41; 82A, 907

Ochromonas danica, 82C, 29
Octodon degus, 80B, 195
Octopamine, 81C, 297, 451; 82C, 165, 193, 427
Octopus vulgaris, 80B, 67, 843; 82C, 483
Odontophrynus americanus, 82B, 515
Odors, 81A, 7, 43; 82A, 153
Oestradiol, 80B, 347
Oestrous cycle, 80B, 381
Olfactory receptor cells, 81A, 7, 329
Olfactory sensitivity, 81A, 43
Olfactory stimulants, 82A, 193
Oligosarcus jenynsi, 81A, 473
Oncorhynchus keta, 80B, 303; 81B, 309; 82B, 111

Oncorhynchus kisutch, 80A, 61, 533; 81A, 807; 82A, 531
Oncorhynchus tshawytscha, 81A, 25
Ophionereis annulata, 81A, 899
Ophiura ophiura, 80A, 11; 82A, 395
Opiods, 80C, 237
Optic tract section, 82A, 447
Orconectes, 82B, 433
Oreochromis mossambicus, 82A, 23, 549
Organ dynamics, 82A, 899
Organochlorine, 82C, 445
Organochlorine insecticides, 81C, 375
Organophosphates, 82C, 147
Organ scaling, 82A, 907
Ornithine decarboxylase, 80B, 827
Orotic acid, 81B, 499
Oryzias, 80B, 499; 82A, 815
Oryzias latipes, 80A, 177; 81C, 279
Osmolality, 81B, 717
Osmoregulation, 80A, 523; 81A, 451; 82A, 613, 833; 82C, 227
Osmosis, 81A, 581
Osmotic adjustment, 82A, 571
Osmotic conditions, 80A, 579
Osteogenesis, 82A, 13
Ouabain, 81A, 127
Ouabain-insensitive sodium efflux, 81C, 345
Ovarian growth, 80A, 93
Ovarian maturation, 80A, 115
Oviduct, 80B, 61
Ovis aries, 81A, 255
Ovomacroglobulin, 80B, 209
Ovoverdin, 80B, 589
Ox, 80B, 127
β-oxidation of fatty acids, 82B, 79
Oxidative phosphorylation, 82B, 545
2,3-oxidosqualene lanosterol-cyclase, 80B, 341
4-oxo-β-end group, 81B, 905
Oxygen affinity, 82A, 221
Oxygenation, 81A, 259
Oxygen binding, 81A, 643
Oxygen binding properties, 80A, 53
Oxygen consumption, 80A, 307; 80B, 677; 80C, 253; 81A, 71, 673; 82A, 105, 281
Oxygen equilibrium curves, 82A, 355
Oxygen perception, 82A, 459
Oxygen tension, 80A, 25
Oxygen transfer, 82A, 553
Oxygen uptake, 81A, 63, 373, 423, 857
Oxymetazoline, 80C, 347
Oxytetracycline, 80C, 375; 81C, 223

P-450, 80B, 135
Pacemaker property, 81A, 55
Pachycerianthus torreyi, 81B, 661
Pacifastacus leniusculus, 81B, 833
PAGE, 82B, 41
Palaemon elegans, 81A, 633
Palaemon pacificus, 81A, 71
Palinurus vulgaris, 80A, 151
Palmitic acid, 80B, 617
Panagrellus redivivus, 82B, 99
Pancreas, 82C, 479
Pancreatic digestive enzyme, 81A, 539
Pancreatic elastase, 80B, 227
Pancreatic metalloproteinase, 80B, 223
Paramecium, 80A, 167
Paramecium aurelia, 82A, 787
Paraquat, 81C, 415
Parasilurus asotus, 80B, 223
Parasympathetic activation, 80A, 57
Parathyroid hormone, 81A, 653
Pardosa astrigera, 80A, 415
Parietalectomy, 80A, 411
Parotid gland, 81C, 7
Paruroctonus mesaensis, 82C, 377
Parvalbumins, 80B, 499
Patella caerulea, 82B, 405
Patinopecten yessoensis, 80B, 867
PCBs, 82C, 439
Pelecanus occidentalis, 82A, 837
Penaeus japonicus, 81B, 447
Penaeus stylirostris, 80A, 205
Pentachlorophenol, 82C, 283

Pepsin, 80B, 467

Pepsinogens, 82B, 67

Peptide hydrolases, 82B, 599

Perinereis cultrifera, 81B, 851

Periplaneta americana, 80B, 75; 81A, 43; 82C, 349

Periplaneta brunnea, 82A, 775

Periplaneta fuliginosa, 80A, 377

Perognathus californicus, 82A, 297

Peromyscus, 80A, 587

Peromyscus maniculatus, 82A, 725

Peroxidases, 82B, 433

Peroxide metabolism, 81C, 415

Peroxides, 82C, 399

Peroxisomes, 80B, 161, 425

Pesticides, 82C, 217

Petromyzon marinus, 82A, 207

PFK, 80B, 623; 81B, 1067

PGE_2, 81A, 653

pH, 80A, 53, 495, 507; 81A, 149; 82C, 49, 199, 323

Phenothiazines, 81C, 419

Phenylephrine, 80C, 371

Phodopus sungorus, 81A, 271; 82A, 293

Phoracantha semipunctata, 80B, 57

Phormia terrae-novae, 80B, 805

Phosphagen, 80B, 517

Phosphate, 80A, 17

Phosphate efflux, 81A, 469

Phosphoglucomutase, 80B, 839

Phosphoglucose isomerase, 82B, 371

Phosphoglycerate mutase, 81B, 965

Phosphohexose isomerase, 80B, 405

Phospholipase A_2, 81B, 319

Phospholipid, 80B, 685, 867; 81A, 761; 81B, 193, 591; 82B, 173, 647

Phosphomannosyl receptors, 82B, 259

Phosphoproteins, 80B, 513, 913

Phosphoribomutase, 80B, 839

Phosphoribosyltransferases, 82B, 773

Phosphorylase, 81B, 1053

Phosphorylase b, 81B, 453

Phosphorylation-dephosphorylation, 80B, 109

Photic responses, 80A, 11

Photocyte luminescence, 81C, 359

Photoperiod, 80B, 139; 81A, 347; 82A, 97, 725

Phylogeny, 81A, 501

Phytase, 80B, 557

Pigeon, 80A, 103; 81A, 329; 82A, 97

Pigeon liver, 82B, 385

Pigment concentrating hormone, 80A, 257

Pigs, 80A, 363, 559; 80B, 609; 81B, 53; 82A, 1

Pig thyroid gland, 80A, 183

Pimephales promelas, 80C, 253; 81C, 341

Pinealectomy, 82A, 97

Pineal indoleamine, 80B, 731

Pineal melatonin, 80A, 21

Pituitary hormones, 82A, 855

Pitymys duodecimcostatus, 80B, 145

PK (pyruvate kinase), 82B, 63, 163, 279, 405, 841

Plaice, 81B, 291

Planorbis corneus, 80B, 175

Plasma androgens, 82A, 515

Plasma corticosteroids, 82A, 531

Plasma lipoproteins, 82B, 321

Plasmalogens, 82B, 293

Plasma parameters, 82A, 131

Plasma protein, 80A, 215; 599; 80B, 309

Plasmid pBR322, 80B, 485

Plasmodium berghei, 80B, 583

Plasmodium knowlesi, 80B, 725

Platelet activating factor, 81C, 81; 82A, 145

Platelet alpha-adrenergic receptor, 81C, 181

Platelet proteins, 82B, 715

Platynereis dumerilii, 80B, 119

Pleuronectes platessa, 80B, 99; 81A, 373; 81C, 53

Pneumatophorus japonicus japonicus, 80B, 203

^{31}P-NMR, 81B, 291

Poikilothermy, 81B, 705

Pollen digestion, 82A, 499

Pollutants in fish, 81C, 273

Polyisoprenoid lipids, 82B, 487
Polymorphonuclear neutrophils, 82B, 587, 595
Polypeptide, 80B, 127
Polyunsaturated fatty acids, 81B, 749
Porichthys, 81C, 359
Portagen, 82A, 819
Posidonia australis, 80B, 315
Post-stimulus hyperpolarization, 82A, 763
Postsynaptic effects, 81C, 11
Potassium distribution, 80A, 425
Progesterone, 80A, 303; 81A, 847; 81B, 55; 82A, 661
Pregnancy, 80B, 381; 82A, 661
Preoptic nucleus, 81A, 311; 82A, 29
Procambarus clarkii, 81A, 157; 81B, 1023
Procavia capensis, 80A, 291
Prochilodus scrofa, 80A, 287
Proctolin, 80B, 61, 65; 81C, 345
Progesterone synthesis, 81B, 473
Prolactin, 80A, 547; 81A, 93, 769; 82A, 323
[^{3}H]prolactin, 80A, 533
Proline, 82C, 331
Pronephric ducts, 81C, 29
Propanolol, 81C, 39; 82C, 129
Propylthiouracil, 81A, 807; 82C, 17
Prosimulium fuscum, 82B, 37
Prostaglandin, 80A, 591; 80B, 141
Protamines, 80B, 119
Protease, 81A, 853; 82B, 575
Proteinase, 82B, 731
Protein digestion, 82A, 43
Protein phenotype, 80B, 279
Protein synthesis, 82A, 179
Protein turnover, 82B, 849
Proteoglycans, 80B, 761
Protocerebral neurosecretory, 80A, 107
Psammomys obesus, 81A, 571
Pseudemys scripta, 81A, 603
Pseudemys scripta elegans, 81A, 905
Psoroptes cuniculi, 81B, 915
Psoroptes ovis, 81B, 915
Ptychodera flava, 82B, 107
Pungitius pungitius, 81B, 711
Purine analogs, 81B, 615
Purine-metabolising enzymes, 81B, 1037
Purine metabolism, 81B, 459
Purine nucleoside phosphorylase, 82B, 805
Purine nucleoside phosphorylase (NP-1A), 80B, 521
Pygmy possums, 81A, 459
Pyrethroid, 81C, 97
Pyrimidines, 82B, 365
Pyruvate branch point, 82B, 129
Pyruvate decarboxylase, 81B, 1019
Pyruvate kinase, 80B, 51, 109, 361, 577; 81B, 123

Quails, 80B, 309; 81A, 403; 81B, 185
Queenlines, 81A, 203
Quinuclidinyl benzilate, 80B, 75

Rabbit, 80B, 85, 127; 81B, 1041; 82A, 71, 879
Rabbit colon, 81A, 873
Rabbit muscles, 81B, 641
Raccoon dog, 82A, 959
Radioiodine, 80A, 337
Rainbow trout, 81A, 555
Ram spermatozoa, 82A, 681
Rana catesbeiana, 80A, 359; 82A, 77
Rana esculenta, 81C, 45; 82A, 855
Rana pipiens, 82A, 35
Rana ridibunda, 80A, 75; 81A, 465; 82A, 833
Rana sphenocephala, 81A, 525
Rangifer tarandus, 82A, 675
Rapana thomasiana, 81A, 779
Rat, 80A, 49, 57; 80B, 85, 127; 80C, 217; 81A, 99, 103; 81B, 87; 82A, 211, 693, 863; 82B, 255, 581; 82C, 17, 279
Rat epidermis, 82B, 269
Rat heart, 80A, 129
Rat ileum, 80A, 5
Rat knee meniscus, 82B, 283
Rat liver, 80B, 347

Rat liver mitochondria, 82B, 379
Rat stomach, 82B, 207
Rat tail artery, 81C, 311; 82C, 213
Rat tissues, 80B, 489
RBC, 82A, 355, 601
Receptors, 82A, 193
Receptor mechanisms, 80C, 211; 81C, 1
Rectification, 81A, 619
Reductase, 81B, 923
Reneira sarai, 81B, 111
Reproduction, 81A, 251
Reproductive condition, 81A, 117
Reptiles, 80B, 441
Respiration, 81A, 143
Respiration of avian embryos, 82A, 735
Respiratory behaviour, 80A, 25
Respiratory inhibition, 80A, 167
Respiratory intensity, 80A, 1
Respiratory metabolism, 80A, 1, 287; 82A, 851
Respiratory role, 80A, 99
Rest, 80A, 199
Retina, 80A, 233
Retinol, 81B, 415
Retzius nerve cells, 82A, 763
Rh +, 82B, 707
Rhagium inquisitor, 80B, 241; 82B, 327
Rhodopsin, 81A, 431
Rhynchosciara americana, 80B, 895
Rhynchotragus kirki, 81A, 335
40S ribosomal subunits, 82B, 461
Ribosyl transfer, 82B, 805
RNA, 82B, 51
RNA polymerase, 80B, 485
RNAs, 80B, 89
Rumen, 81B, 863
Russell's viper venom, 82B, 647
Rutilus rutilus, 82A, 667

S-adenosyl-L-methionine, 82B, 751
Saimiri sciureus, 81B, 823
Salamanders, 81A, 673
Salamandra salamandra, 82A, 479
Salicylhydroxamic acid, 80A, 167
Saline exposure, 81A, 217
Saline load, 81A, 487
Salinity, 80A, 25; 80B, 145; 81A, 481, 869; 81B, 73; 82A, 301, 559
Salinity acclimation, 82A, 367
Saliva, 81B, 823
Salivary gland, 80A, 57
Salivary gland cells, 80B, 175
Salmo gairdnerii, 80A, 507, 523; 80B, 115, 365, 671, 677, 693, 697; 80C, 299; 81A, 149, 311, 391; 669, 821, 81B, 73, 275, 281, 285, 869, 877; 82A, 29, 179, 201, 221, 257, 429, 435, 915; 82B, 79, 87, 683; 82C, 109, 115, 143, 301
Salmon, 81B, 81
Salmo salar, 81B, 63; 81C, 259; 82C, 323
Salmo trutta, 81B, 869; 82A, 261; 82B, 95
Salt gland, 81C, 287
Salvelinus alpinus, 80A, 553
Salvelinus namaycush, 81A, 669
Saponin, 82A, 645
Sarcophaga bullata, 81B, 171
Sarcophaga peregrina, 81A, 191
Sarcoplasmic reticulum, 80A, 265; 80B, 805
Sarotherodon niloticus, 81A, 423
Sarpedobilin, 80B, 547
Scapharca inaequivalvis, 80B, 109; 81B, 123
Sceloporus undulatus, 82A, 515
Sceloporus undulatus hyacinthinus, 80A, 199
Scenedesmus acutus, 82B, 767
Scent gland, 80B, 235
Schistosoma haematobium, 81B, 43; 82C, 91
Schistosoma mansoni, 81B, 1001; 82A, 421; 82B, 299
Scophthalmus maximus, 81B, 193
Scyliorhinus canicula, 80A, 99; 81A, 879; 81C, 159; 82B, 781
Sea bass, 82B, 841
Seabirds, 82A, 781
Seagulls, 81A, 837
Seals, 82C, 249
Seasonal changes, 81A, 511

Sea squirts, 81B, 137
Sea-urchins, 80B, 767; 81A, 15
Sebum output, 80A, 209
Sebum secretion, 80B, 431
Selenium, 80C, 253, 295; 81C, 469
Sense organ deprivation, 81A, 915
Sepia officinalis, 80C, 415
Sepiapterin reductase, 80B, 61
Serine-type peptide hydrolases, 82B, 607
Seriola quinqueradiata, 80B, 195
Serrasalmus nattereri, 81A, 67
Serum, 82A, 141
Serum protease, 82B, 111
Sex dimorphism, 80B, 235
Sex pheromone, 81B, 1073
Sheep, 80B, 489; 81B, 59, 909; 82B, 419
Shell porosity, 81A, 377
Shetland pony mares, 82A, 651
Silkworm haemolymph, 81B, 301
Silurus glanis, 80B, 909
Silver, 81C, 337; 82C, 115
Skate, 82C, 255
Skeletal chemistry, 81B, 827
Skeletal muscle, 81A, 109; 81B, 1057; 82A, 675
Slow-crustacean neuromuscular system, 82A, 591
Small intestine, 80A, 343
Smoltification, 81A, 807; 82C, 323
Smooth muscle, 82A, 621
Snail mucus, 82C, 345
Snake plasma albumins, 82B, 655
Snakes, 81A, 213; 82B, 447
Snake atria, 81C, 445
Snake skin, 81B, 315
Snake venom metalloproteinases, 80B, 507
SOD, 81B, 229; 82C, 399
Sodium and chloride regulation, 82A, 711
Sodium balance, 81C, 259
Sodium barbitone, 82C, 159
Sodium channel, 81C, 97
Sodium conductivity, 81C, 323
Sodium-dependent absorption, 80A, 437
Sodium efflux, 80C, 421; 82C, 49
Sodium pump, 82A, 621
Sodium transport, 80A, 329
Solea solea, 81B, 217, 695
Solenopsis invicta, 81B, 761
Soleus muscle, 82A, 471
Somatic growth, 80A, 553
Somatochlora cingulata, 82C, 199
Somatostatin, 80A, 49, 575; 81B, 1041
Song, 80A, 93
Sorbitol dehydrogenase, 82B, 317
Sparrows, 80A, 349; 81A, 889
Spasmoneme, 81B, 409, 927
Spawning migration, 80B, 303; 82B, 111
Sphaerodactylus parthenopion, 82A, 759
Spermatozoa, 80A, 325; 80B, 791
Spiders, 81B, 1053
Spilostethus rivularis, 80B, 235
Spinal cord, 81A, 905
Spirographis spallanzanii, 80B, 923
Spongionella gracilis, 81B, 115
Squalene, 81B, 423
Squalus acanthias, 82B, 307
Squid, 80B, 761
Squid cartilage collagen, 81B, 361
Squid chromatophore muscles, 82C, 259
Squilla mantis, 80B, 801
Starfish saponins, 80B, 113
Starlings, 80A, 349
Starvation, 80A, 415
Steroid binding, 82A, 567
Steroid biosynthesis, 81B, 793
Steroid levels, 80A, 61
Sterols, 80B, 337; 81B, 515, 989
$\Delta^{5,7}$sterols, 81B, 115
Sterol composition, 81B, 733
Stomach muscle, 81A, 531
Stomatopods, 80A, 271
Streptomyces UCSM-104, 80B, 45
Streptopelia risoria, 82C, 417, 423
Streptozotocin diabetic mice, 80B, 629
Streptozotocin-diabetic rats, 82A, 827
Stress, 81C, 81; 82A, 285, 549, 609, 951;

82C, 337
Stress-response, 80A, 523
Striped marlin, 81A, 643
Strombine, 82B, 337
Strombus, 80A, 233
Strongylocentrotus droebachiensis, 80B, 155
Strongylocentrotus intermedius, 80C, 385
Strontium, 80A, 129; 82C, 213
Struthio camelus, 82B, 67, 829
Stryphnus mucronatus, 81B, 111
Submandibular and parotid glands, 80C, 347
Submandibular cells, 81C, 121
Succinate, 81B, 889
Succinate oxidation, 82B, 191
Sucralfate, 82C, 311
Sucrose, 80A, 343
Sugars, 81A, 203
Sulfhydryl reagents, 82C, 409
Sulphatases A, 82B, 333
Superoxide dismutase, 81B, 229; 82C, 399
Surfactant associated proteins, 82B, 441
Sus scrofa domesticus, 81B, 531
Swimbladder, 80C, 269
Swimming, 81A, 25
Swimming behaviour, 81A, 303
Swimming movements, 81A, 209
Swine myocardium, 80A, 399
Swine uterus carnosinase, 80B, 135
Symbiosis, 82B, 469
Sympathetic nerve, 81C, 311; 82A, 333
Synaptic connections, 82A, 345
Synaptosomes, 81B, 349
Syncerus caffer caffer, 82A, 495
Syncerus caffer nanus, 82A, 495

T_3, 80A, 559; 80B, 175; 81A, 807, 865
T_4, 81A, 865
Tachyglossus aculeatus, 81A, 441
Tadpole, 81B, 415
Talorchestia capensis, 81A, 263
Tapes decussatus, 81B, 591; 82A, 945
Tapes philippinarum, 81B, 591; 82A, 945
Taste, 81A, 525
Taste cell receptor potential, 81A, 247
Taurine, 81A, 491; 81B, 565; 82B, 233; 82C, 279
Taurine-verapamil interaction, 80C, 217
Tautogolabrus adspersus, 80B, 475
Tayassu tajacu, 82A, 49
Teal, 82A, 899
Teleost, 82B, 737
Teleost blood, 82B, 659
Teleost RBC, 81C, 411
Temperature, 80A, 25, 199, 481; 80B, 135, 139, 145; 81A, 71, 259, 293; 81B, 877; 82A, 125, 179, 207; 82B, 157, 287
Temperature acclimation, 81A, 79; 82A, 859
Temperature change, 81A, 49
Temperature compensation, 81C, 125
Temperature effects, 82A, 591
Temperature gradient, 82A, 805
Temporal response of neurons, 82A, 879
Terbium ions, 80B, 203
Terrapin muscle, 81A, 659
Terrapin primary afferent projections, 82A, 309
Testicular binding site, 82A, 891
Testicular growth, 80A, 411
Testosterone, 80A, 209; 80B, 347; 80C, 411; 81A, 585; 82B, 659
Testosterone hydroxylases, 81B, 691
Testudo hermanni, 81A, 283
Tetracaine, 81C, 39
Tetrahydrobiopterin, 80B, 61; 81C, 227
Tetrahymena, 80A, 41; 80B, 495, 813; 81B, 443, 923; 82B, 689
Tetrahymena pyriformis, 80B, 817, 821; 82A 567
Tetrahymena pyriformis-NTI, 81A, 287, 303
Tetrahymena thermophila, 80B, 827
Tetrodotoxin, 81C, 323
Thamnophis sirtalis, 80B, 409; 81A, 585
THC, 80B, 1
Thermal acclimation, 81A, 939
Thermal stimulation, 82A, 77
Thermelanophore, 81C, 253

Thermogenesis, 80A, 159; 81A, 99, 815
Thermogenic capacity, 81A, 683
Thermoregulation, 81A, 335, 597
Thermoregulatory activity, 82A, 577
Thermotolerance, 80A, 177
Thermus thermophilus, 80B, 485
5-Thiolhistidine, 80B, 843
Thionein, 80C, 299
Thrombelastograph, 82A, 19, 23
Thrombocytes, 82A, 145
Thunnus albacares, 81B, 809
Thymidylate synthetase, 80B, 583
Thyroid, 80A, 103; 82A, 97
Thyroid function, 80A, 553
Thyroid physiology, 80A, 523
Thyroxine (also see T_4 and T_4), 80A, 559; 81A, 687
Tissue culture, 80B, 53
Toad skin, 81C, 203, 337; 82C, 69
Tobacco budworm eggs, 81B, 165
Torpedo, 81C, 439
Torpedo marmorata, 82A, 59
Torpor, 82A, 297
Toxocara canis, 81B, 939
Tranquilizers, 82C, 467
Transepidermal water permeation, 81A, 213
Transepithelial potential change, 82A, 361
Transferrins, 80B, 909; 82B, 147
Treadmill exercise, 82A, 851
Trehalase, 82B, 821
Trehalose, 80B, 451
Triacylglycerols, 81B, 591
Triatoma infestans, 82B, 187, 793
Tricaine, 80B, 405
Tricarboxylic acid cycle enzymes, 82B, 87
Trichobilharzia ocellata, 81B, 241
Trichomonadidae, 81B, 229
Tridedemnum cereum, 81B, 479
Triglycerides, 82B, 265
Trigonisca, 82B, 137
Trimeresurus mucrosquamatus, 82B, 29
Trimethyllysine, 80B, 419; 82B, 569
Tris buffer, 82C, 501
Tritrichomonas foetus, 81B, 515
Trout, 80B, 569, 573; 81B, 81; 81C, 391; 82C, 495
Trout liver microsomes, 82B, 157
Trypanosoma brucei gambiense, 82B, 73
Trypanosoma cruzi, 80B, 543, 563; 81B, 47, 701, 815
Trypanosoma lewisi, 80B, 889
Trypanosoma rangeli, 81B, 701
Trypsins, 80B, 5, 11, 475; 81B, 447; 82A, 791; 82B, 375; 82C, 69
Tryptophan, 80B, 743
Tubifex sp. 81A, 251; 82A, 965
Tunaxanthin, 80B, 195, 779
Turkey, 80B, 99
Turkey poults, 82A, 939
Turtles, 80B, 441
Turtle testes, 81B, 793
Tyto alba, 80A, 355

Ubiquitin, 81B, 587
Uca minax, 82B, 679
Uca pugilator, 82B, 679
Uca pugnax, 82B, 679
Ucides cordatus, 81A, 581, 895
Ultradian rhythm, 80A, 225
Upogebia pusilla, 81B, 547
Uracil, 82B, 787
Urate oxidase, 81B, 653
Urea, 82A, 833
Uricase, 82B, 621
Uricolytic activity, 81B, 653
Uridine, 81B, 499
Urinary bladder, 81C, 45
Urine, 81A, 895; 82A, 867
Urine analysis, 80A, 503
Urodele amphibians, 81B, 385
Uropygial gland, 81B, 945
Uterus, 80B, 91
Uterus carnosinase, 80B, 381

Vagotomy, 81A, 185

Vanadate, 80B, 247
Vascular permeability, 81C, 53
Ventilatory reversals produced, 80A, 333
Ventricle morphology, 82A, 635
Ventricular strips, 82C, 403
Venus gallina, 80B, 109
Verapamil, 82C, 279
Vinblastine, 82C, 353
VIP, 82C, 479
Vipera lebetina, 81B, 211
Viral encephalitis, 80B, 73
Vitamin D, 81A, 367
Vitellin, 81B, 851
Vitelline membrane, 82A, 289
Vitellogenesis, 80A, 141; 81B, 467
Vitellogenin, 80B, 409, 895; 81B, 63, 869; 82A, 855
Vitellogenin genes, 82B, 497
Voles, 81A, 539

Warfarin, 80A, 43
Water balance, 82A, 479, 705
Water distribution, 80A, 377
Water-loss, 82A, 759
Water stress, 81A, 171
Wax chemistry, 82B, 137
Weight loss, 82A, 931
White blood cell, 81A, 511
Woolly mammoth, 81B, 1045

Xanthine: NAD^+ oxidoreductase, 80B, 371
Xanthurenic, 82B, 763
Xenobiotic biotransformation, 82C, 221
Xenopus, 82B, 497
Xenopus egg jelly coat, 80B, 77, 89
Xenopus laevis, 80C, 313; 82A, 35
X-linked *Hyp* mutation, 81A, 367

YGGFMRFamide, 81C, 61
Yolk proteins, 82B, 525

Zinc, 80B, 185; 81C, 29, 61, 159, 213, 259; 82C, 55, 115
Zinc-binding protein, 80C, 299; 81C, 71
Zonotrichia capensis, 82A, 847
Zonotrichia leucophrys gambelii, 80A, 93
Zooplankton, 81A, 857
Zucker rats, 81B, 103, 797

Printed in Great Britain by A. Wheaton & Co. Ltd, Exeter